

O I P E  
FEB 19 2004  
PATENT & TRADEMARK OFFICE

O I P E  
FEB 18 2004  
PATENT & TRADEMARK OFFICE  
MAIL ROOM  
RECEIVED

1/41

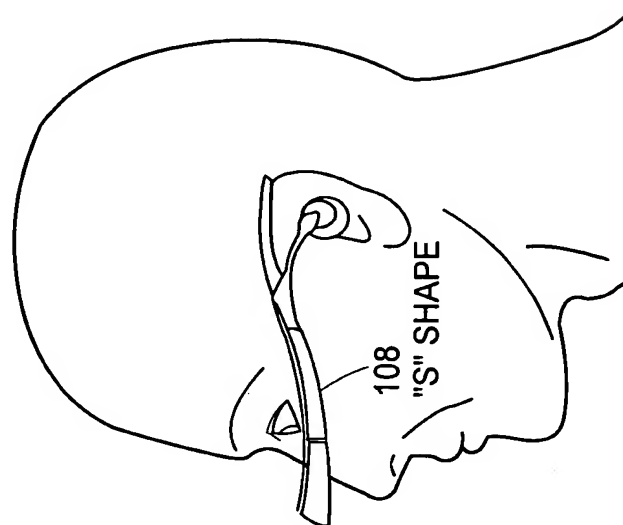


FIG. 2

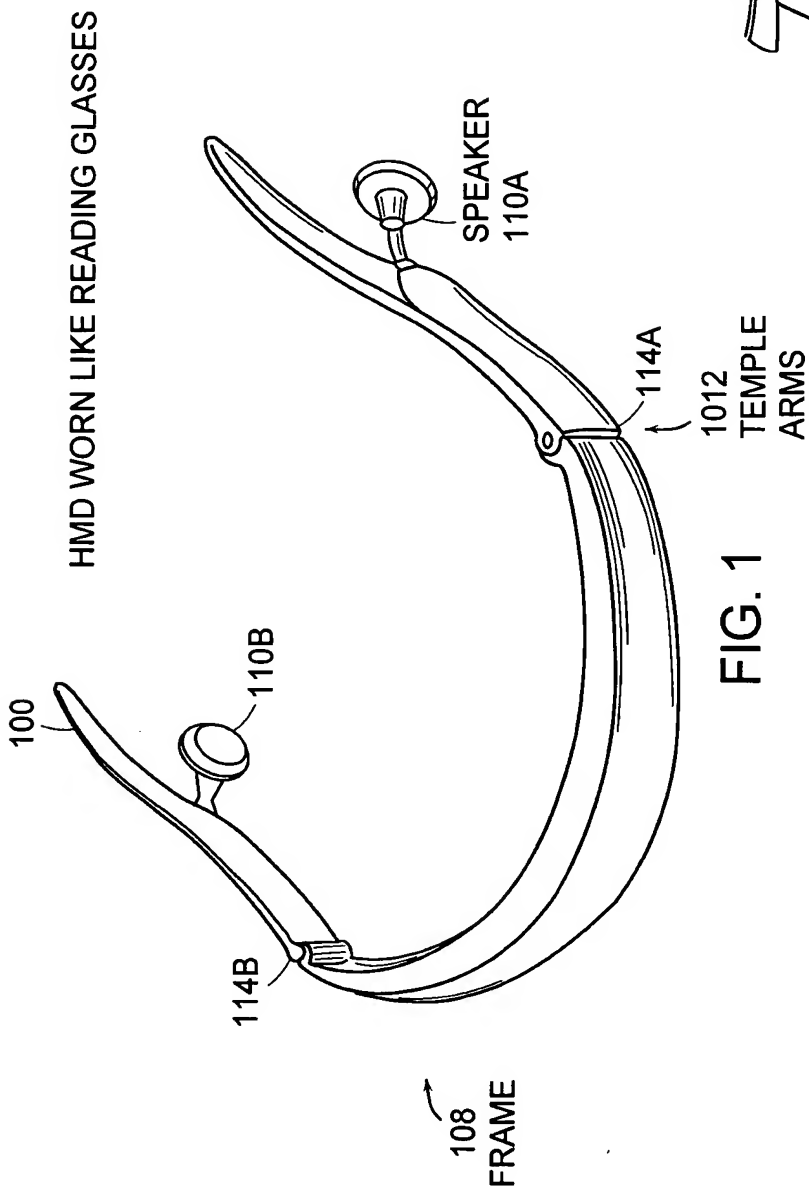
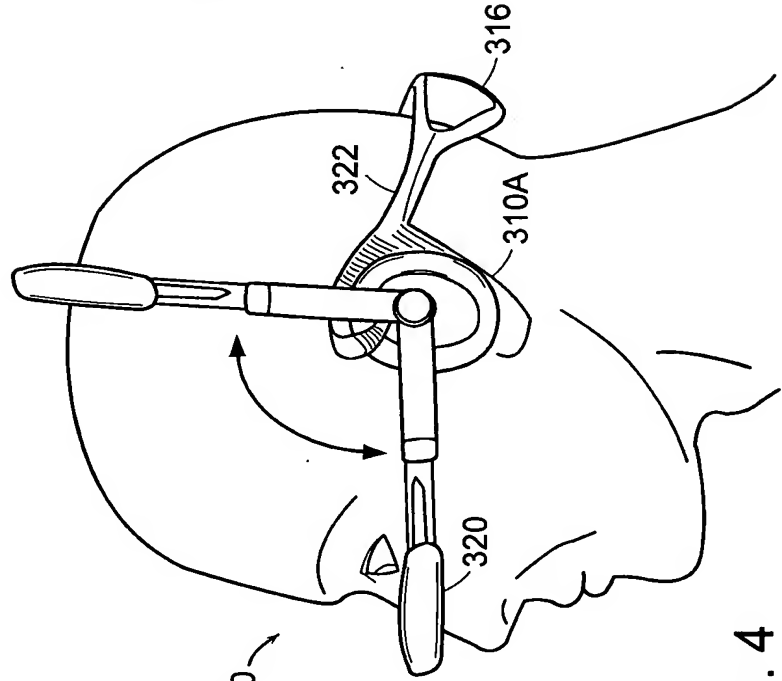
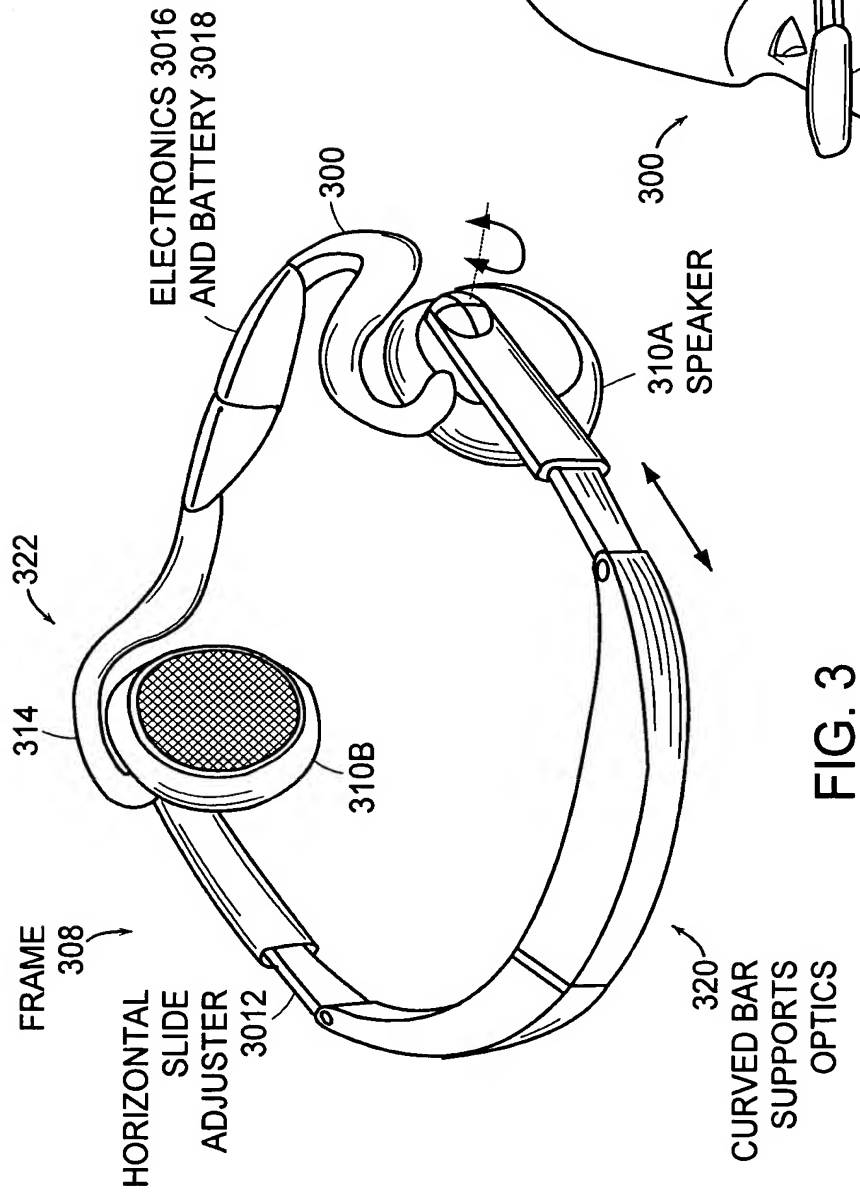
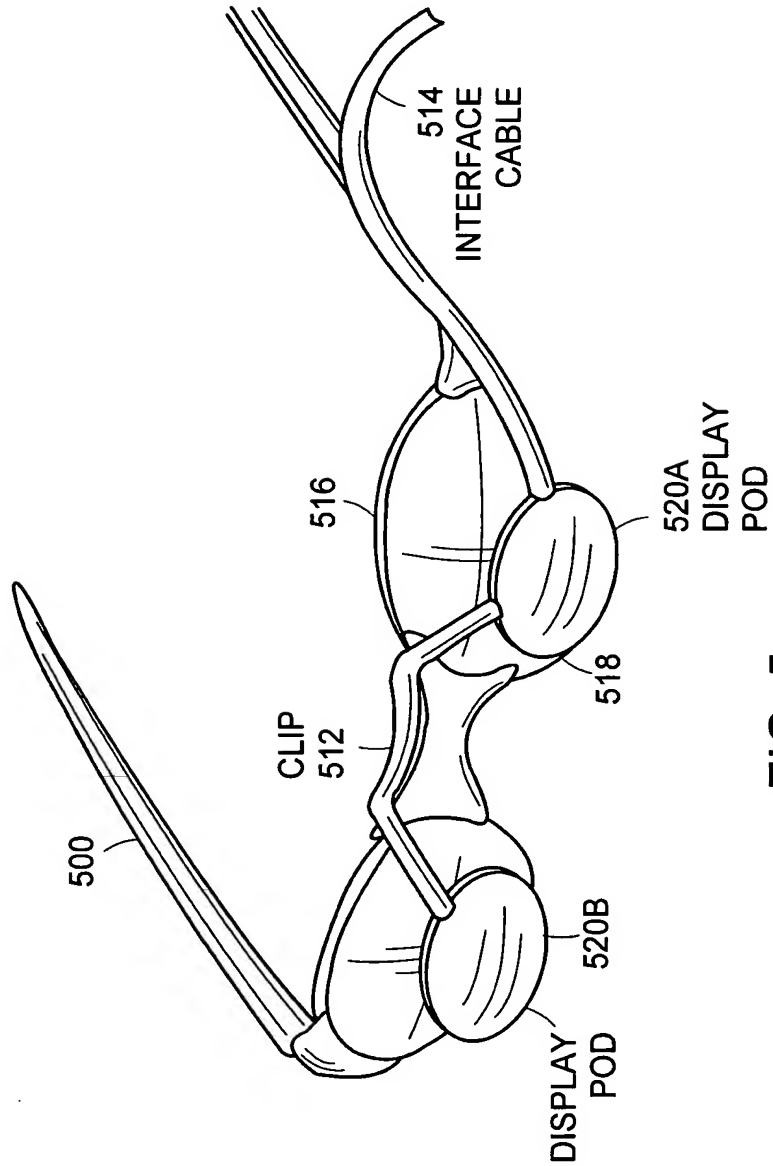


FIG. 1

2/41



3/41



4/41

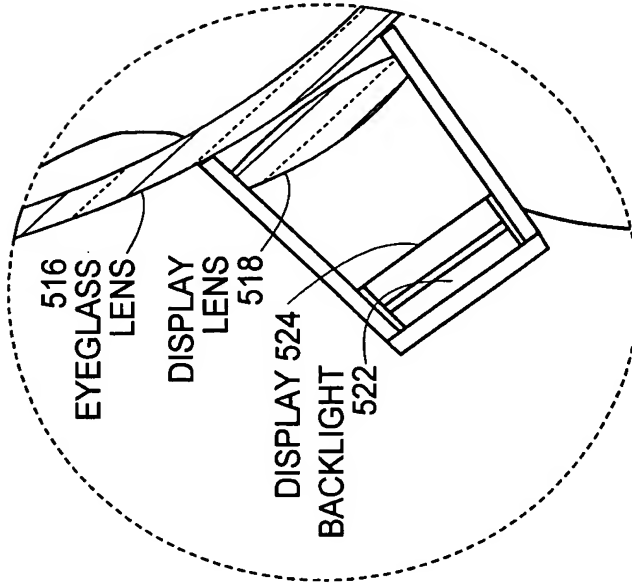


FIG. 6A

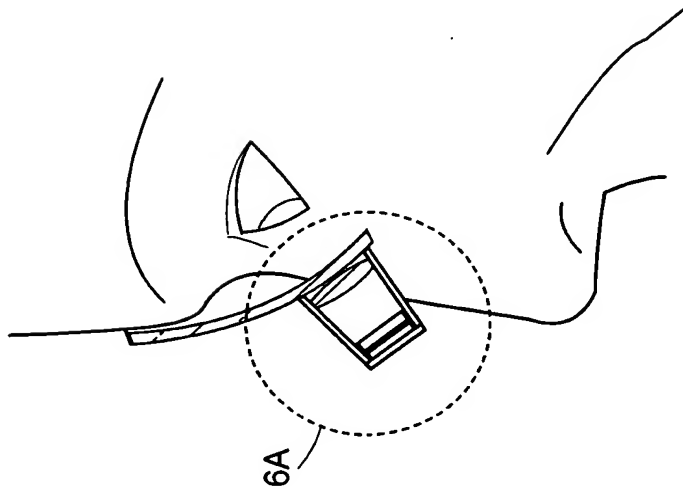


FIG. 6

5/41

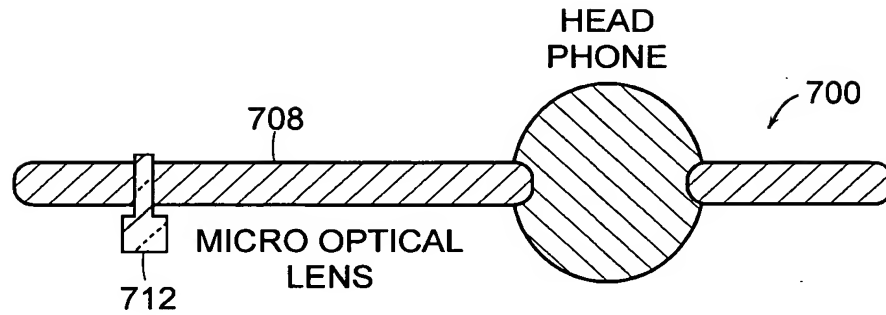


FIG. 7

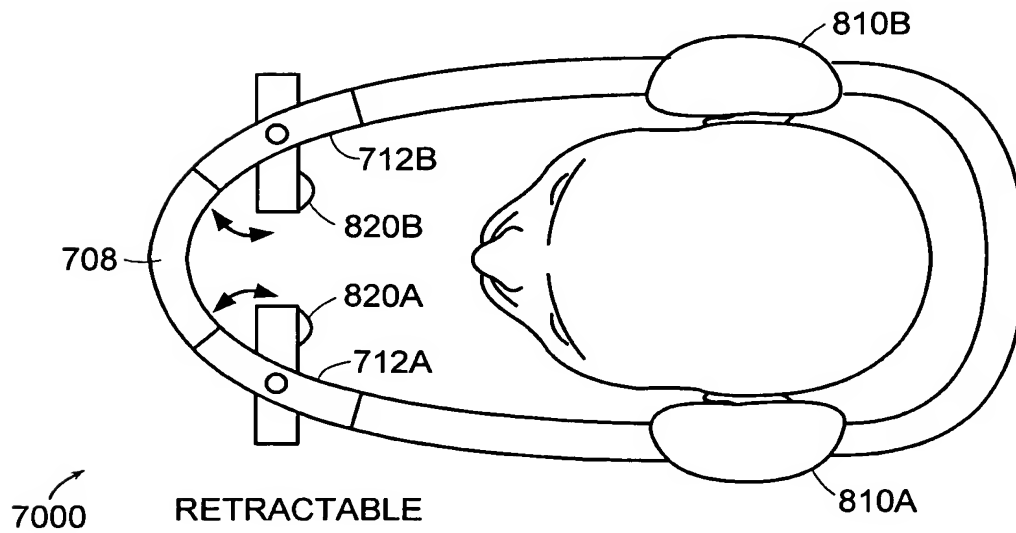


FIG. 8

6/41

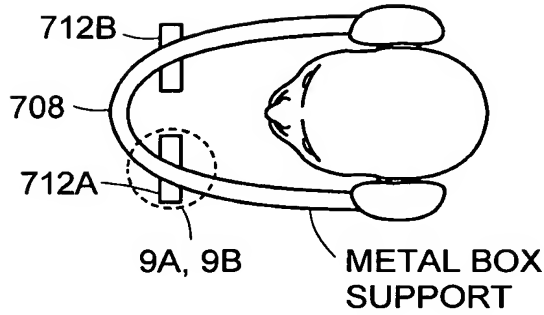


FIG. 9

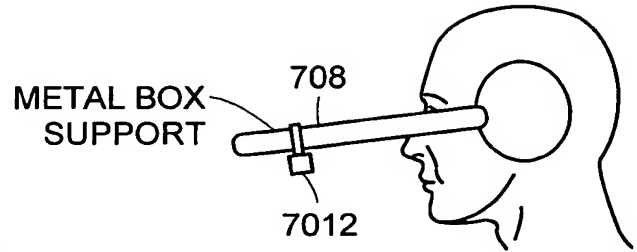


FIG. 9C

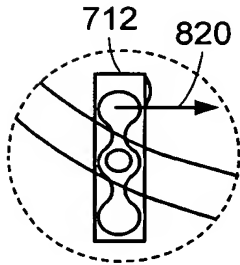


FIG. 9A

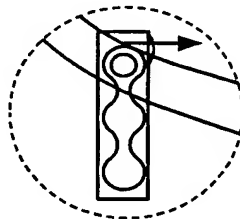


FIG. 9B

MICRO OPTICAL LENS

SIDE VIEW

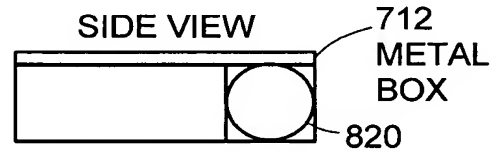


FIG. 9D

MICRO OPTICAL LENS

TOP VIEW



FIG. 9E

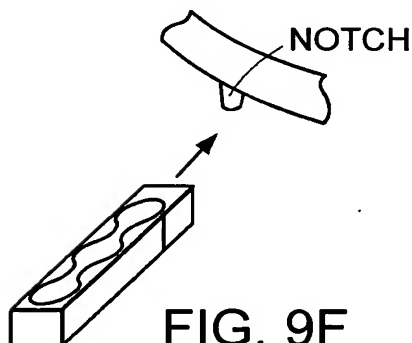


FIG. 9F

7/41

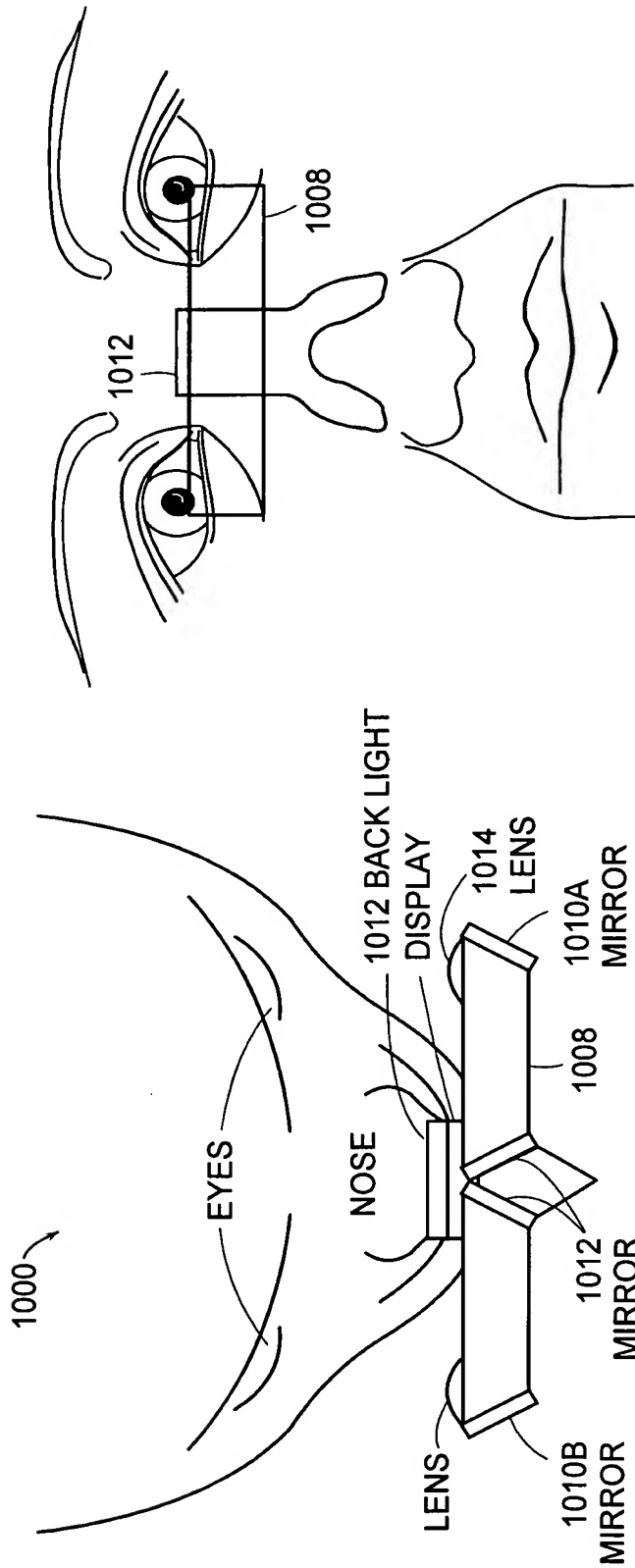


FIG. 10

FIG. 11

8/41

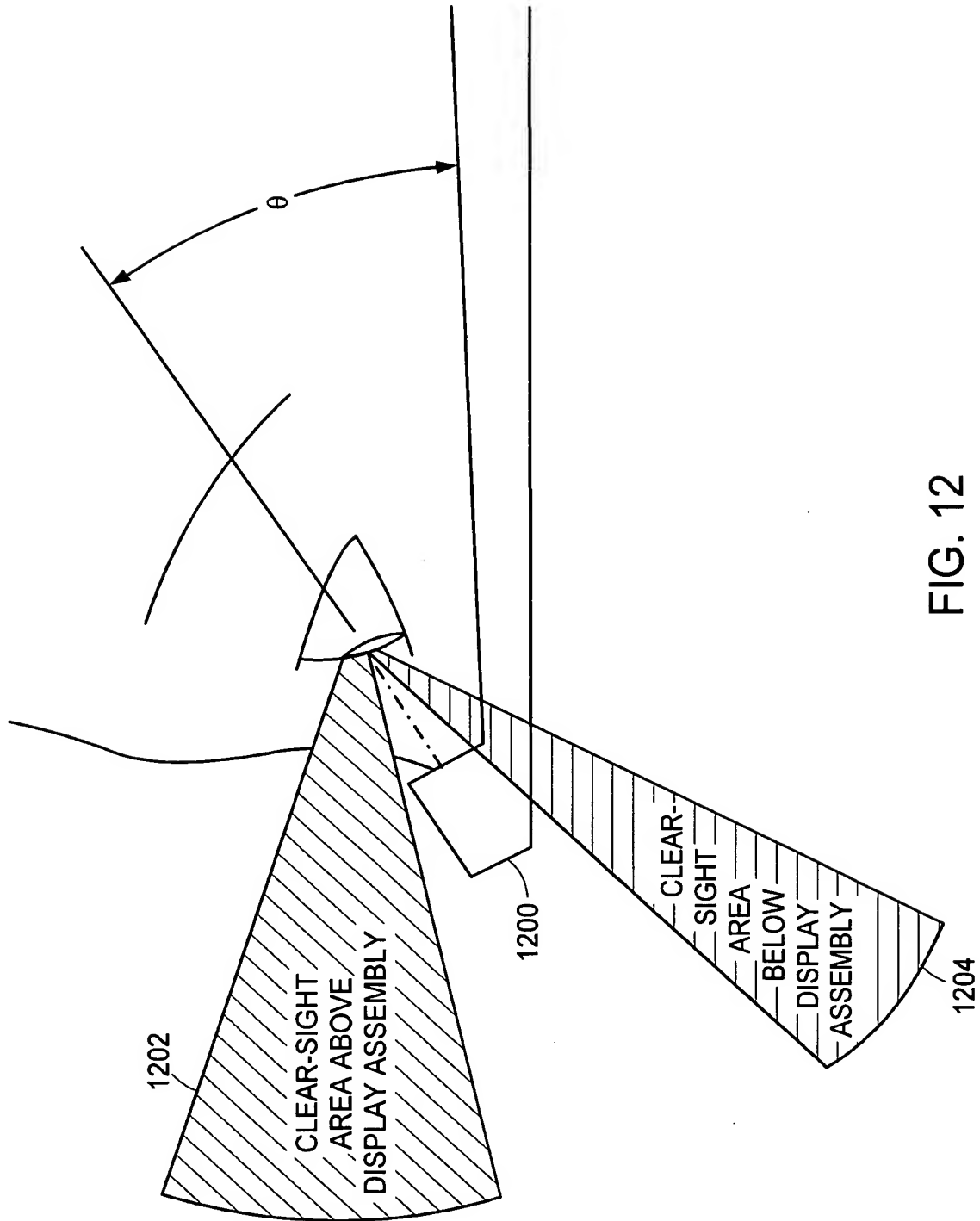


FIG. 12



9/41

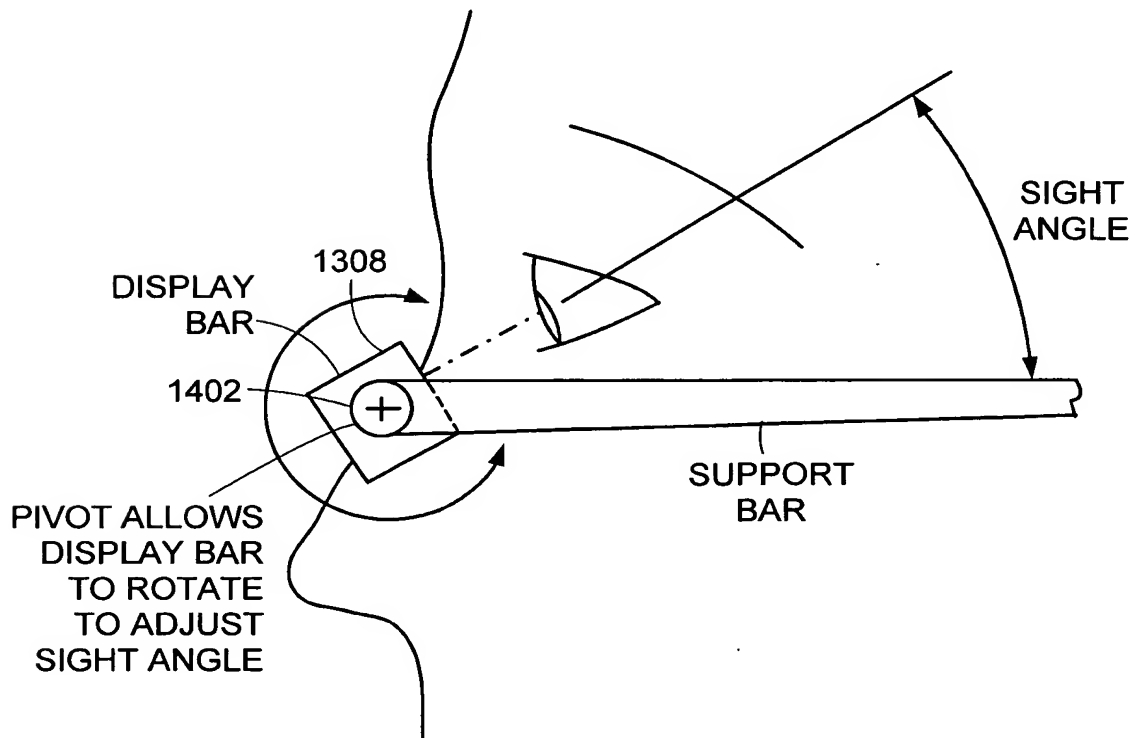
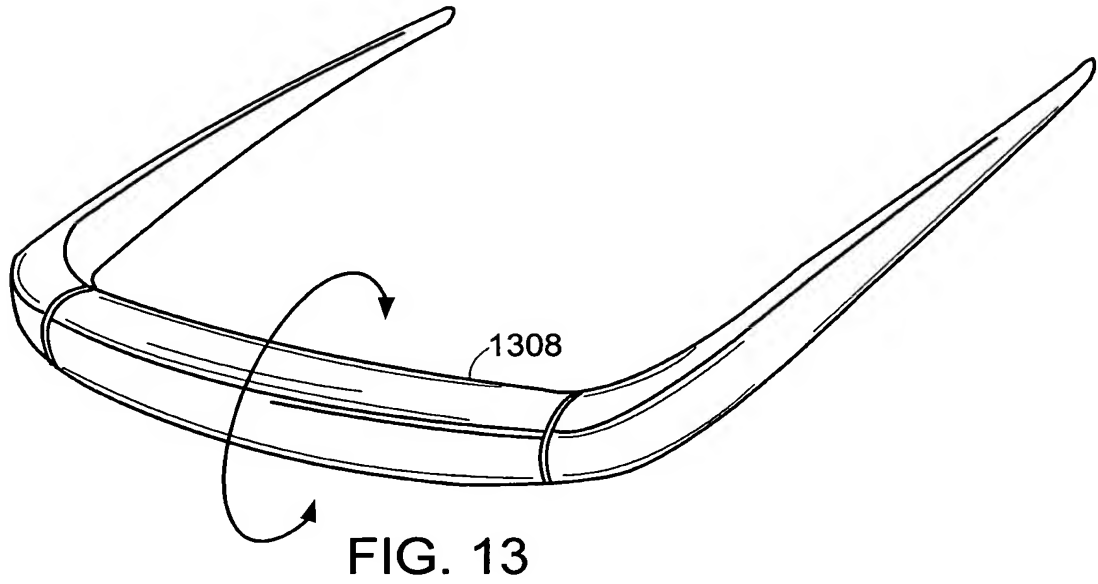


FIG. 14

10/41

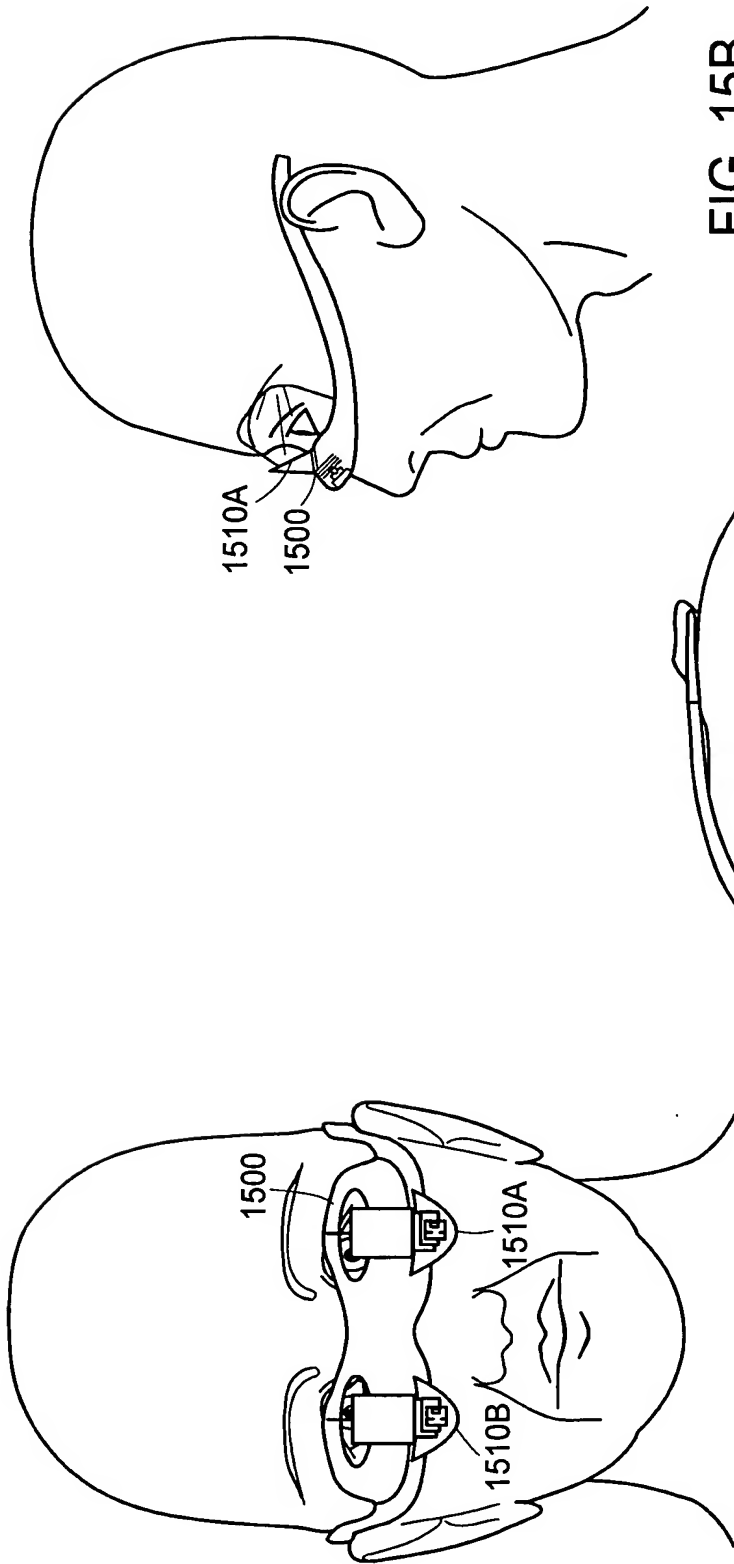


FIG. 15A

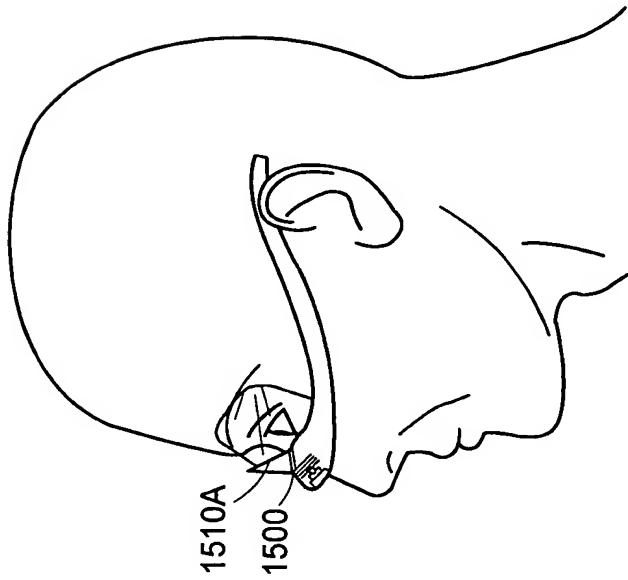


FIG. 15B

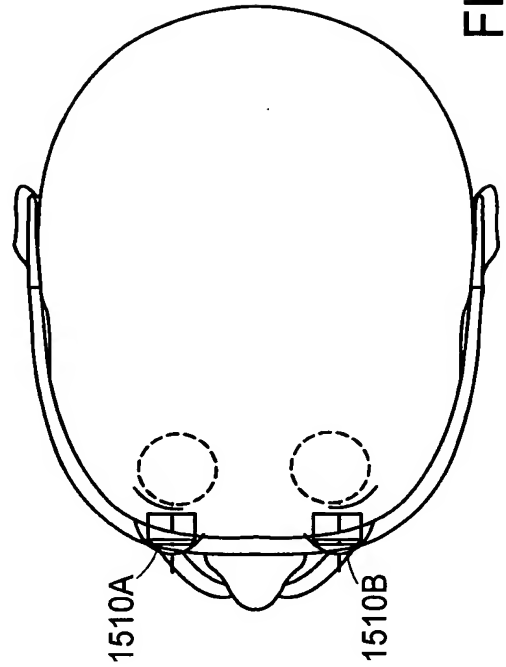


FIG. 15C

11/41

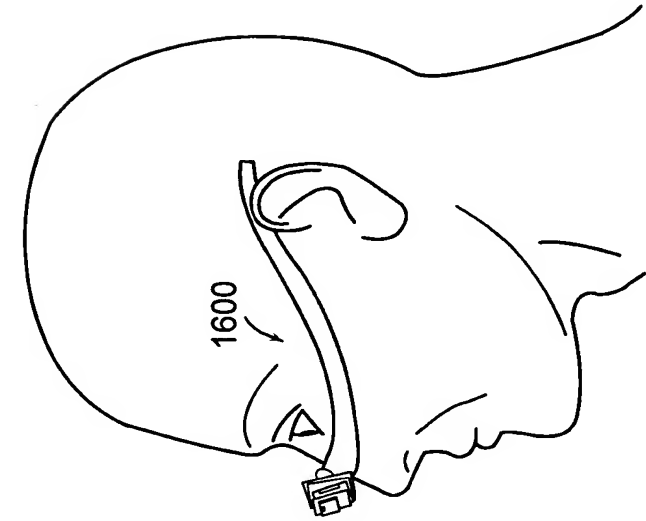


FIG. 16B

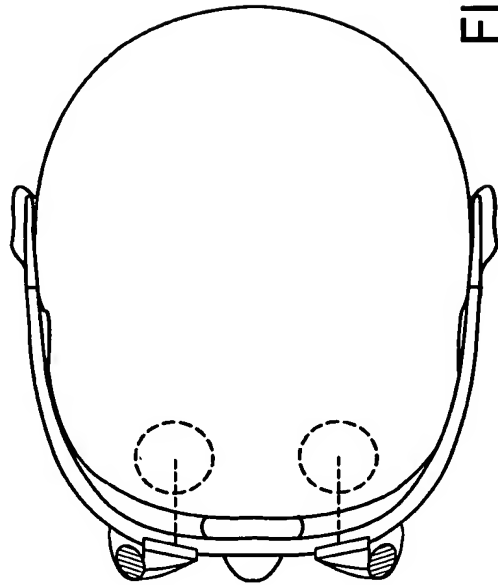


FIG. 16C

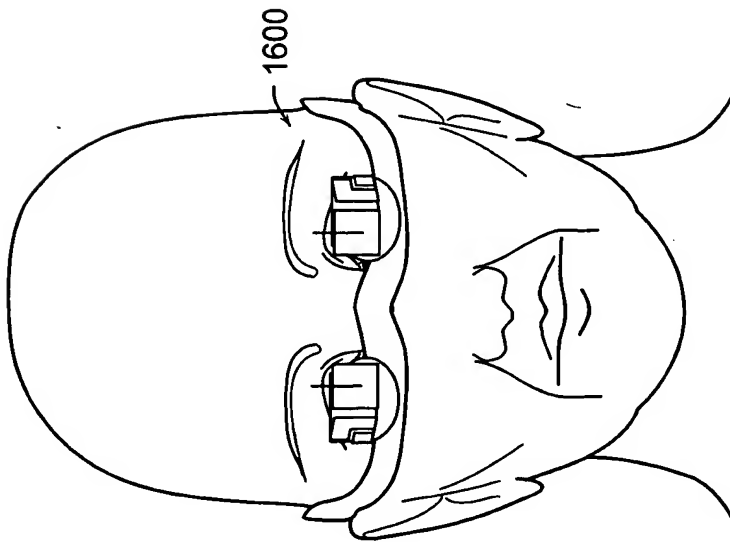


FIG. 16A

1600

12/41

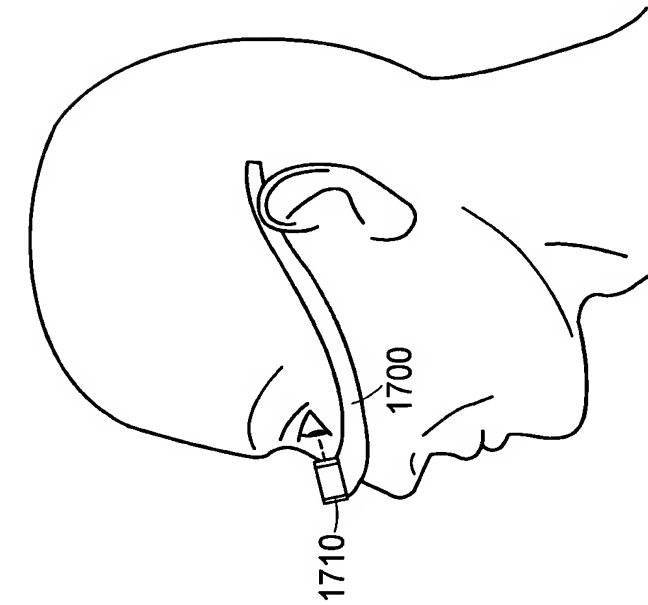


FIG. 17B

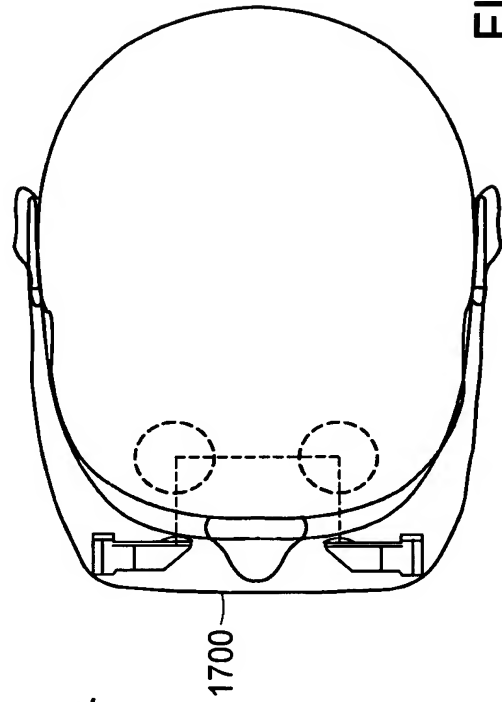


FIG. 17C

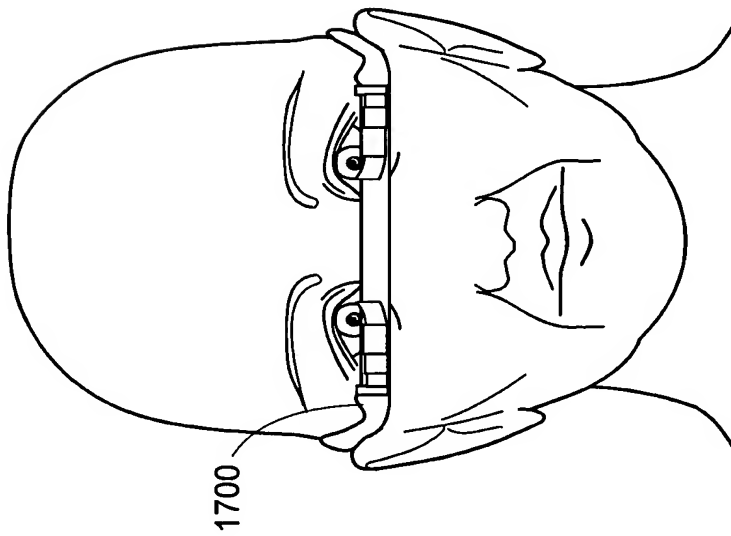


FIG. 17A

13/41

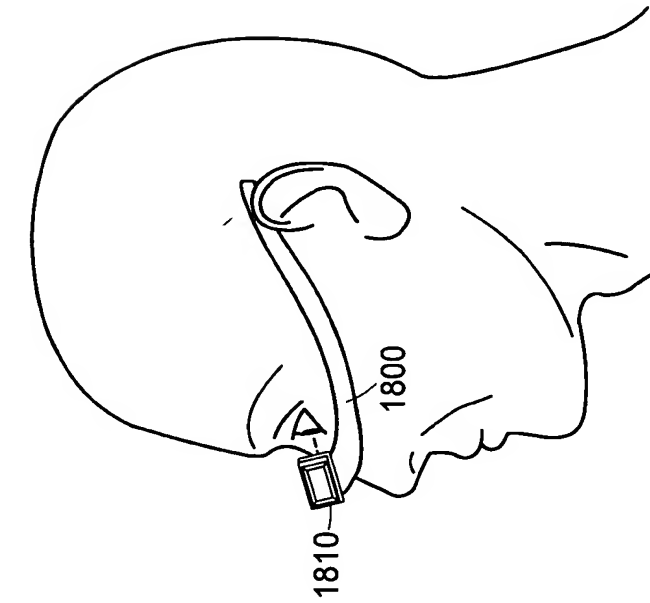


FIG. 18B

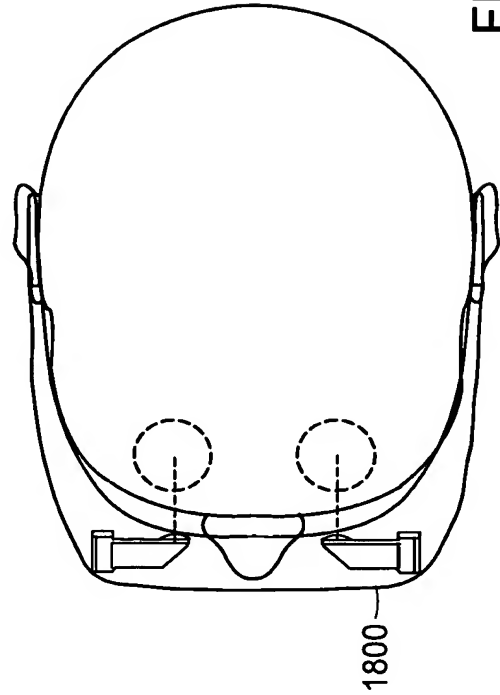


FIG. 18C

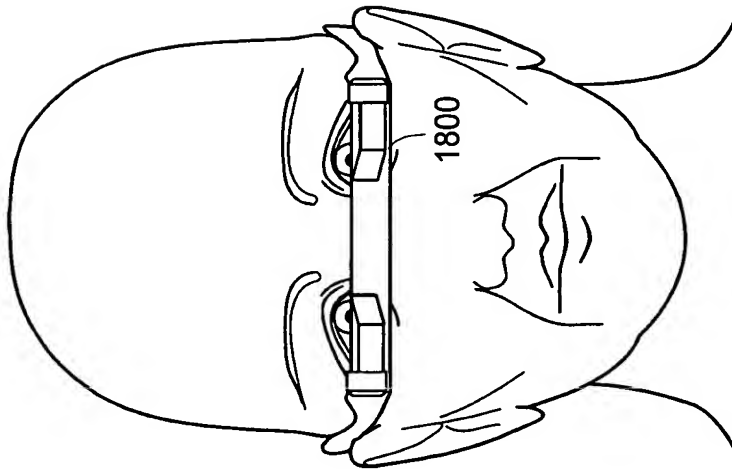


FIG. 18A

14/41

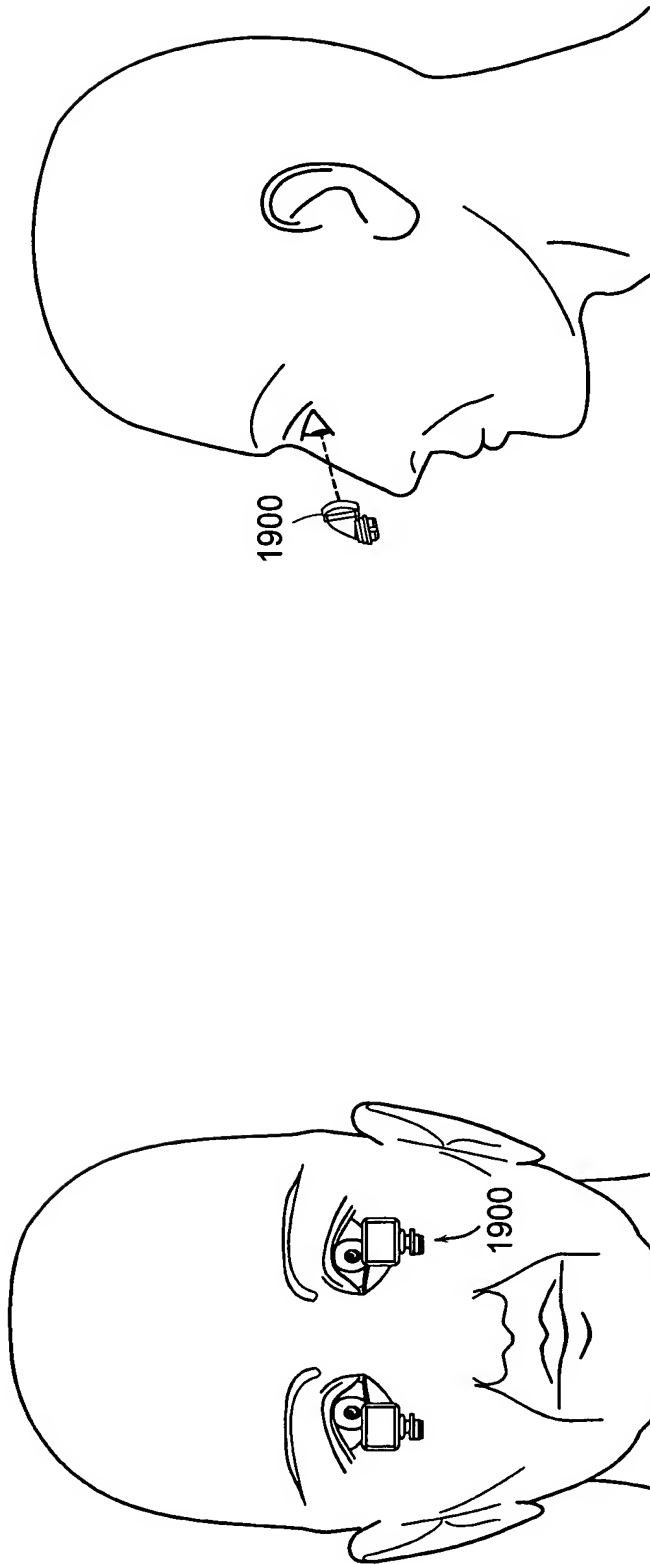


FIG. 19B

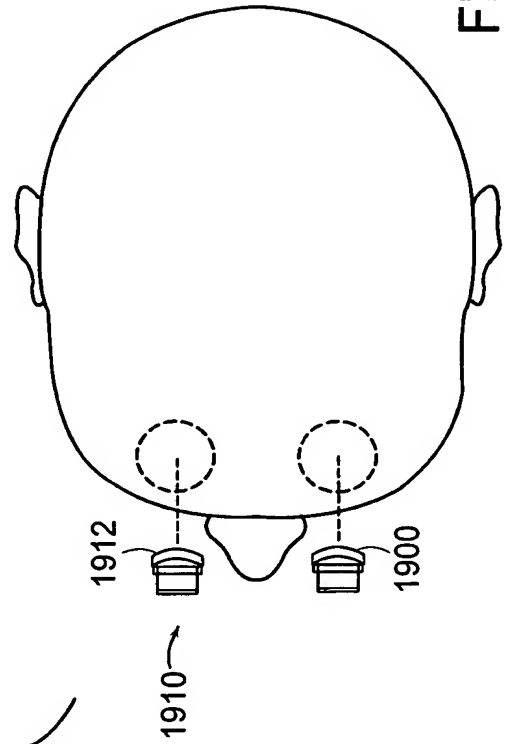


FIG. 19C

FIG. 19A

15/41

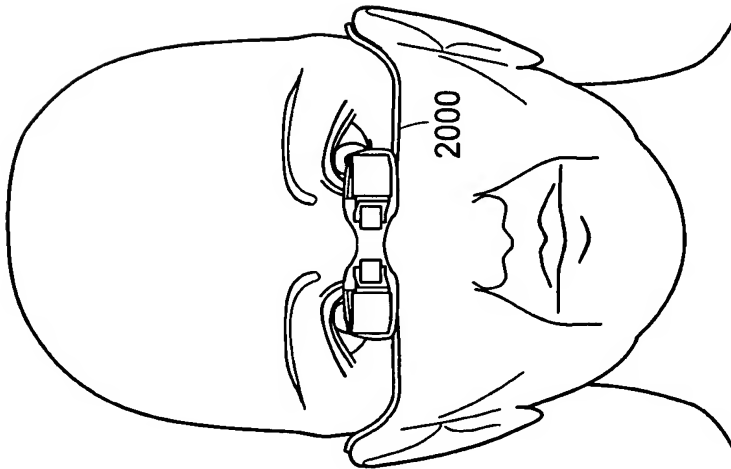


FIG. 20A

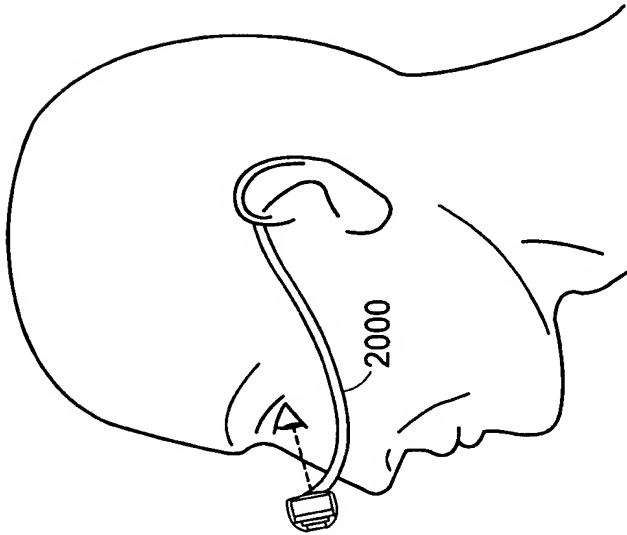


FIG. 20B

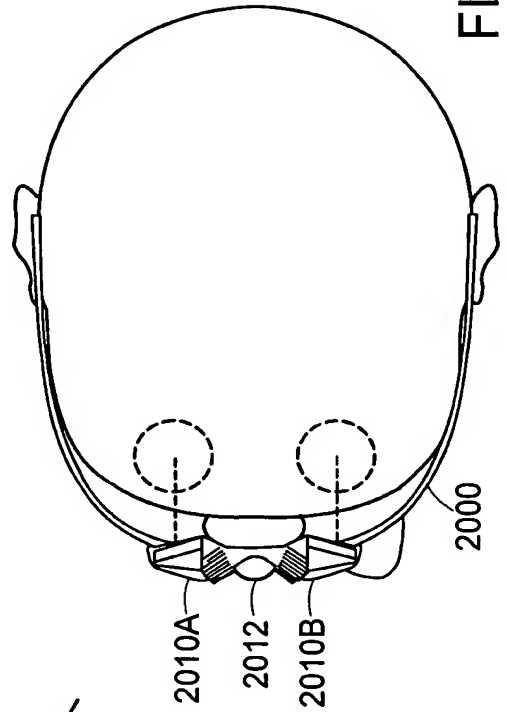


FIG. 20C





17/41

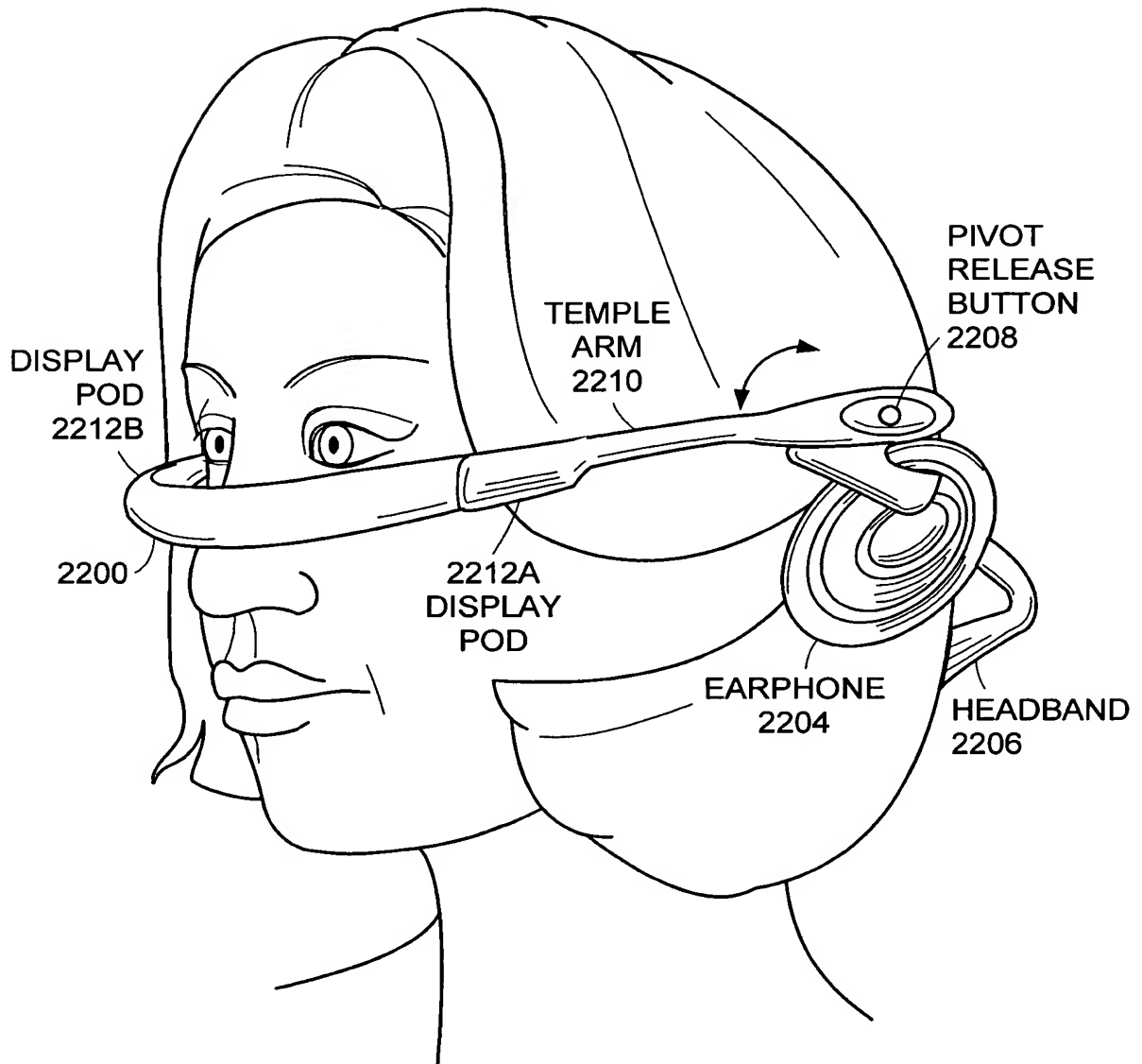


FIG. 22

18/41

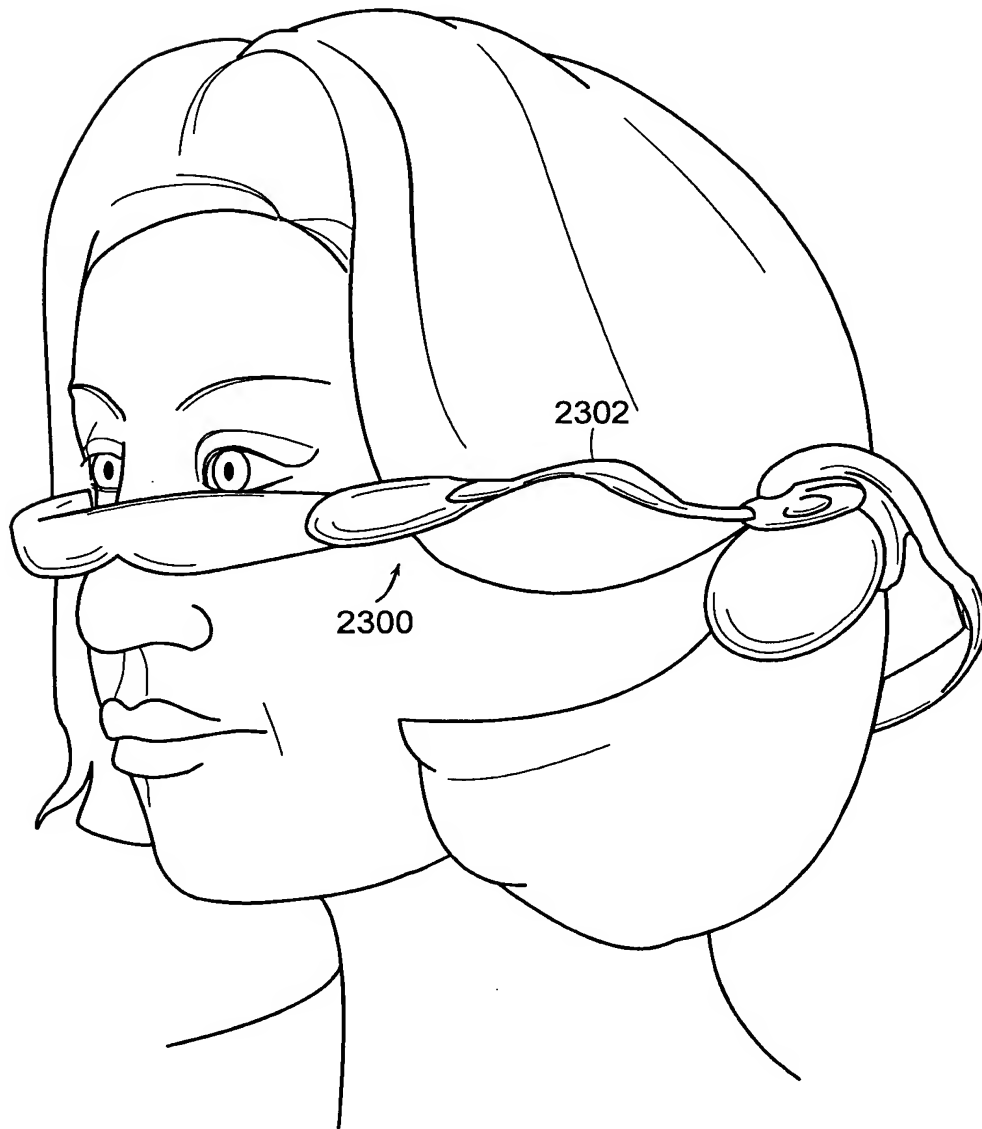


FIG. 23

19/41

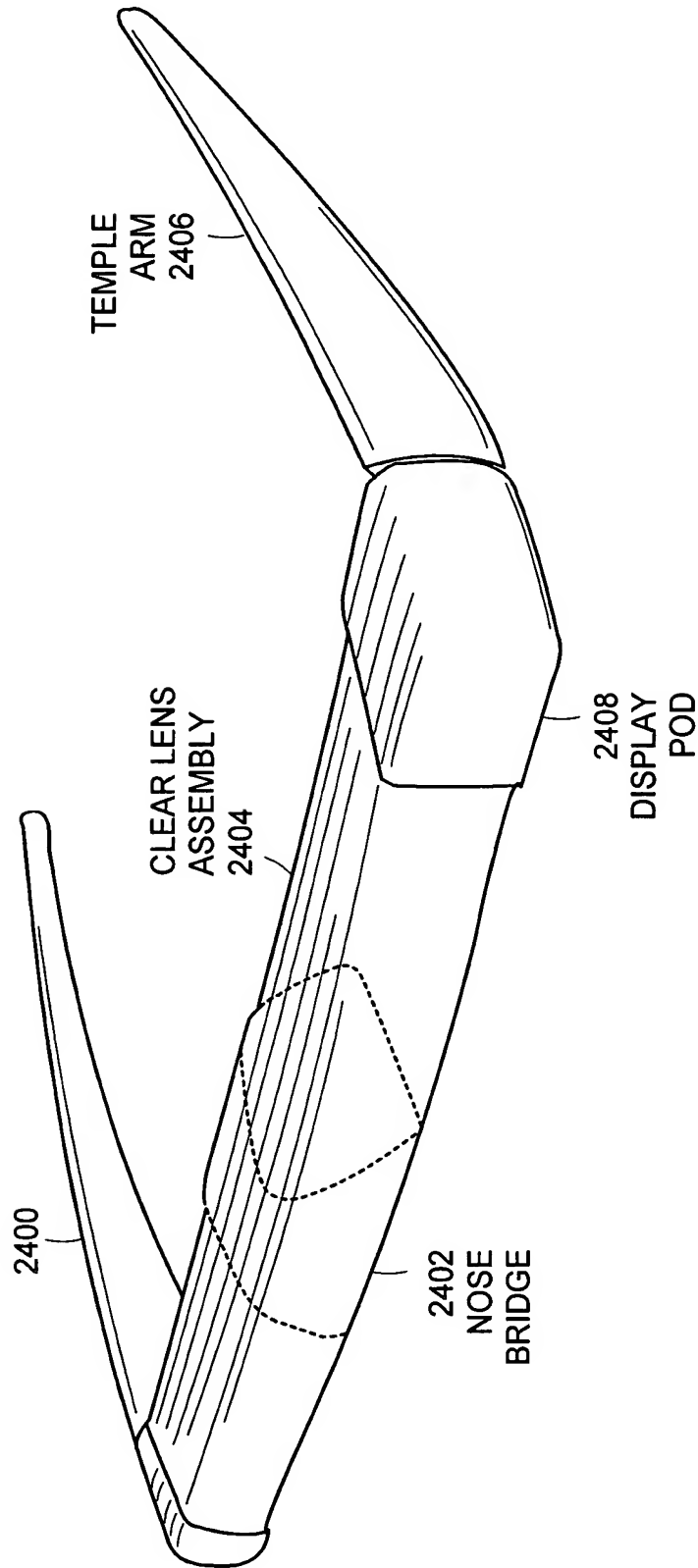


FIG. 24A

20/41

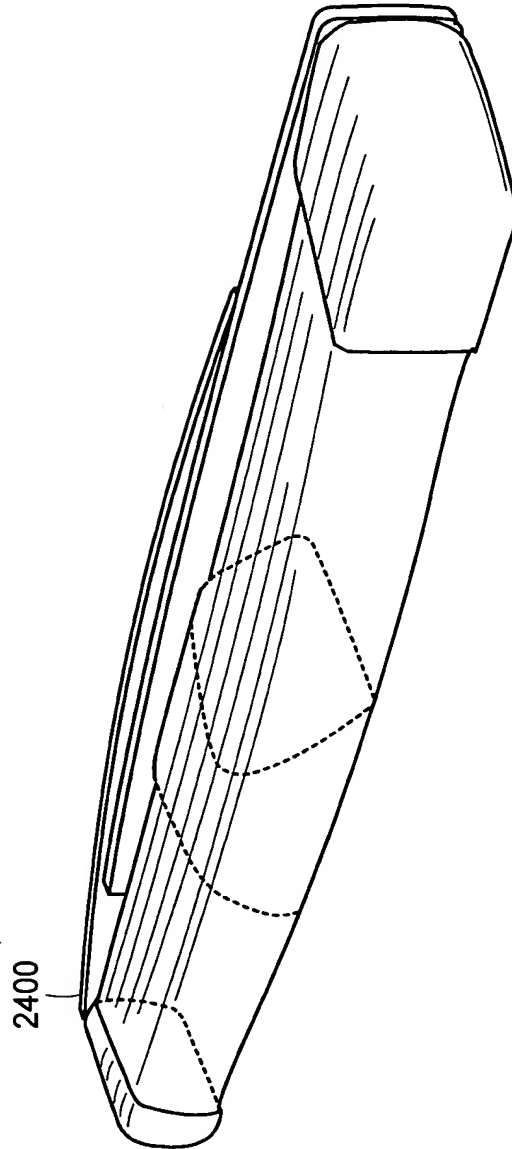


FIG. 24B

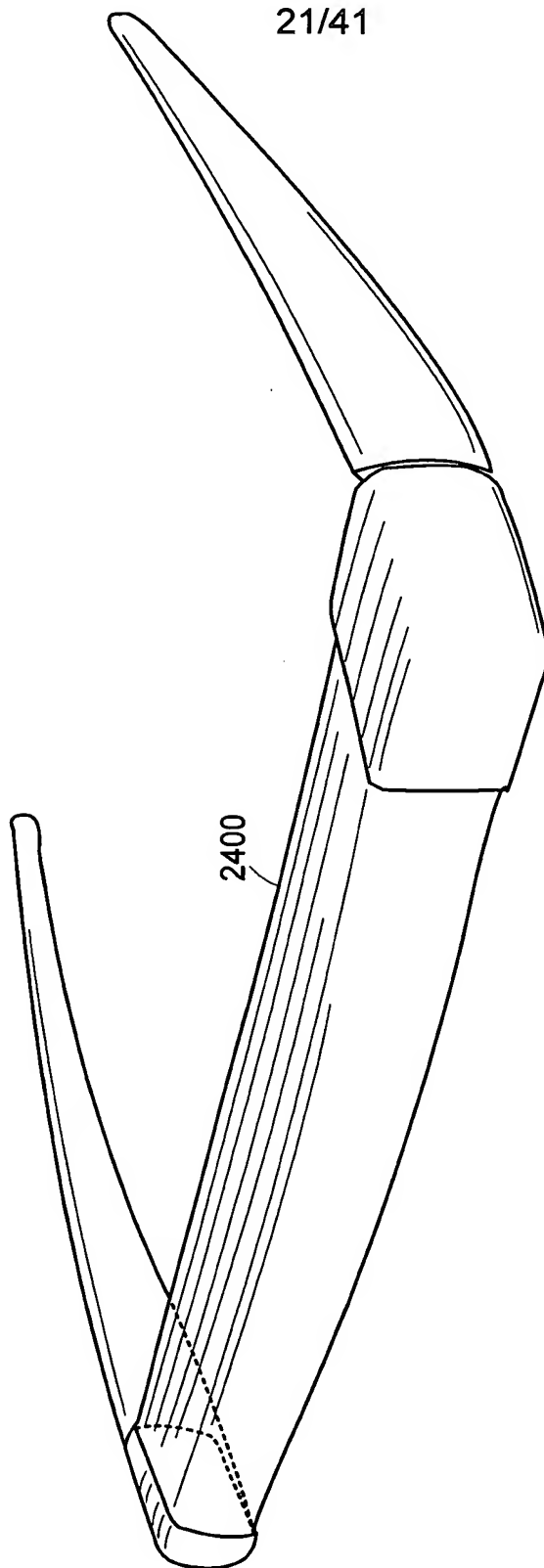


FIG. 24C

22/41

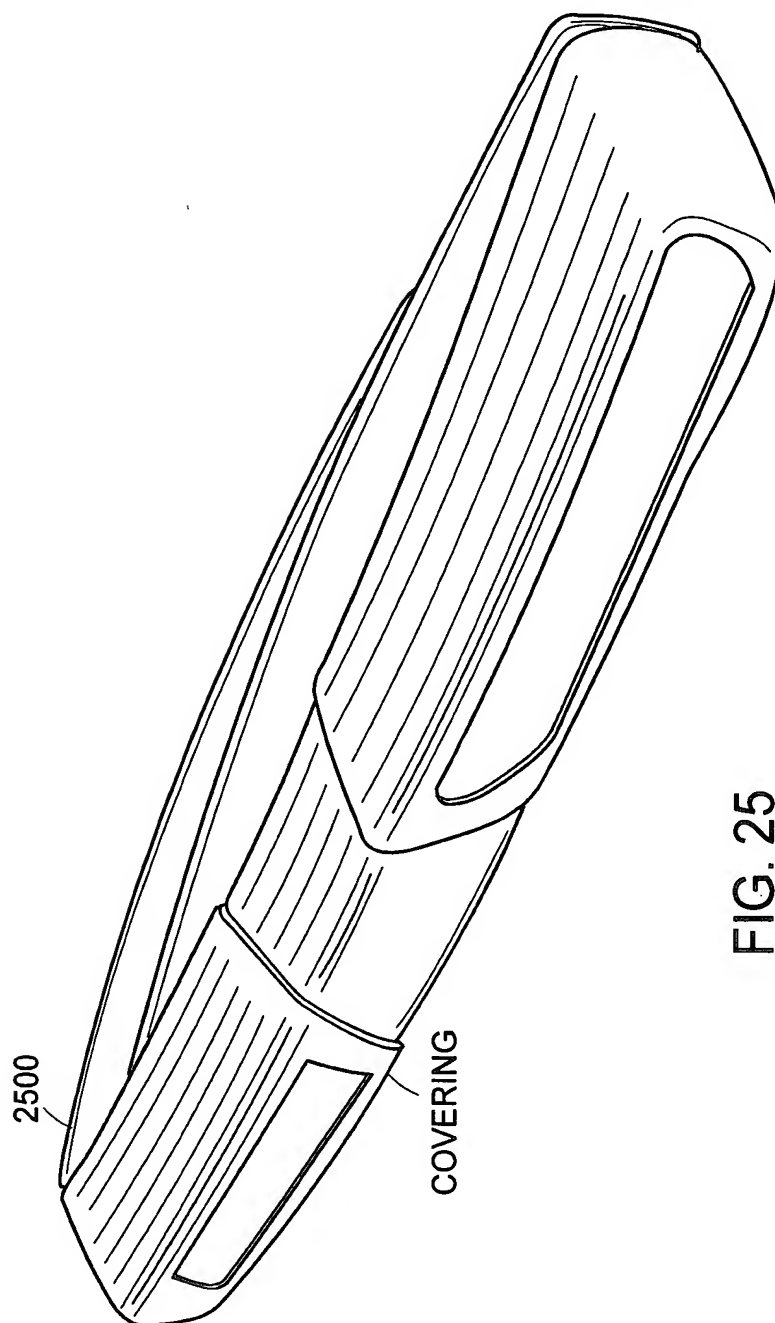


FIG. 25

23/41

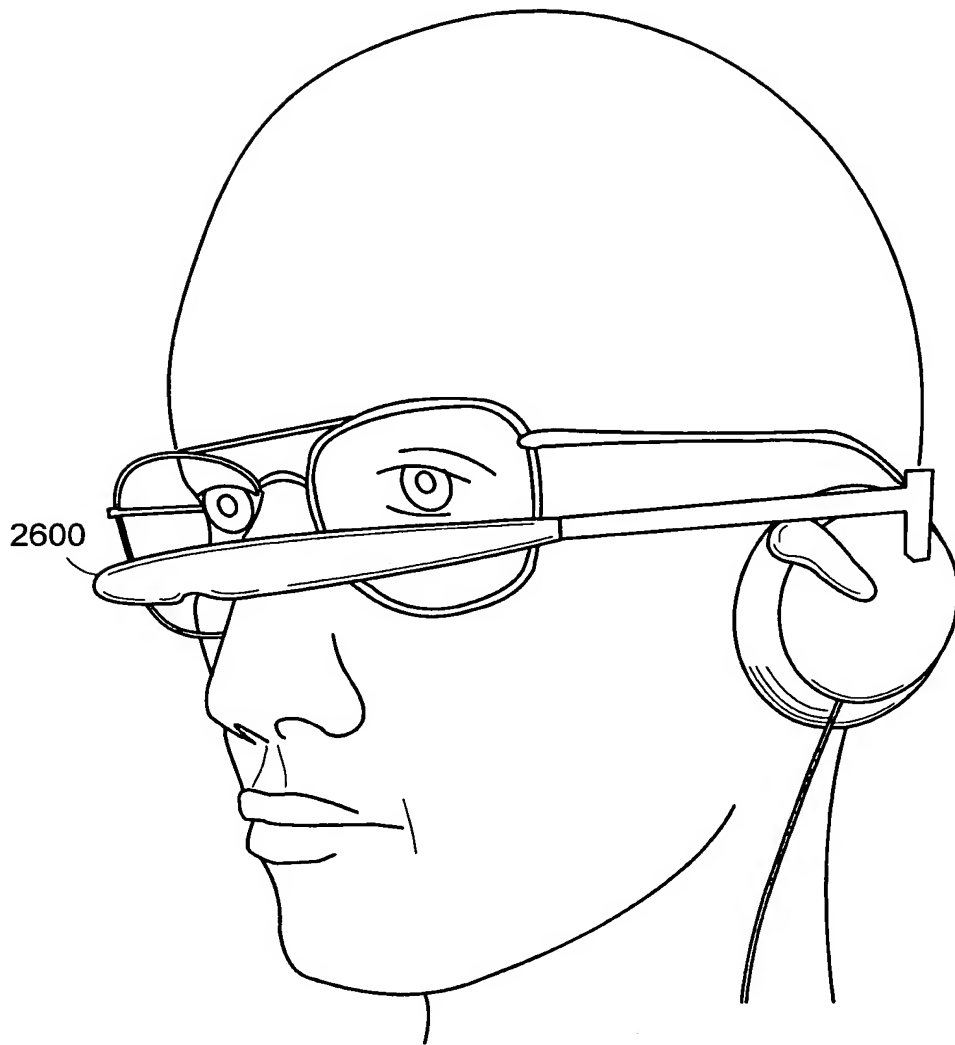


FIG. 26

24/41

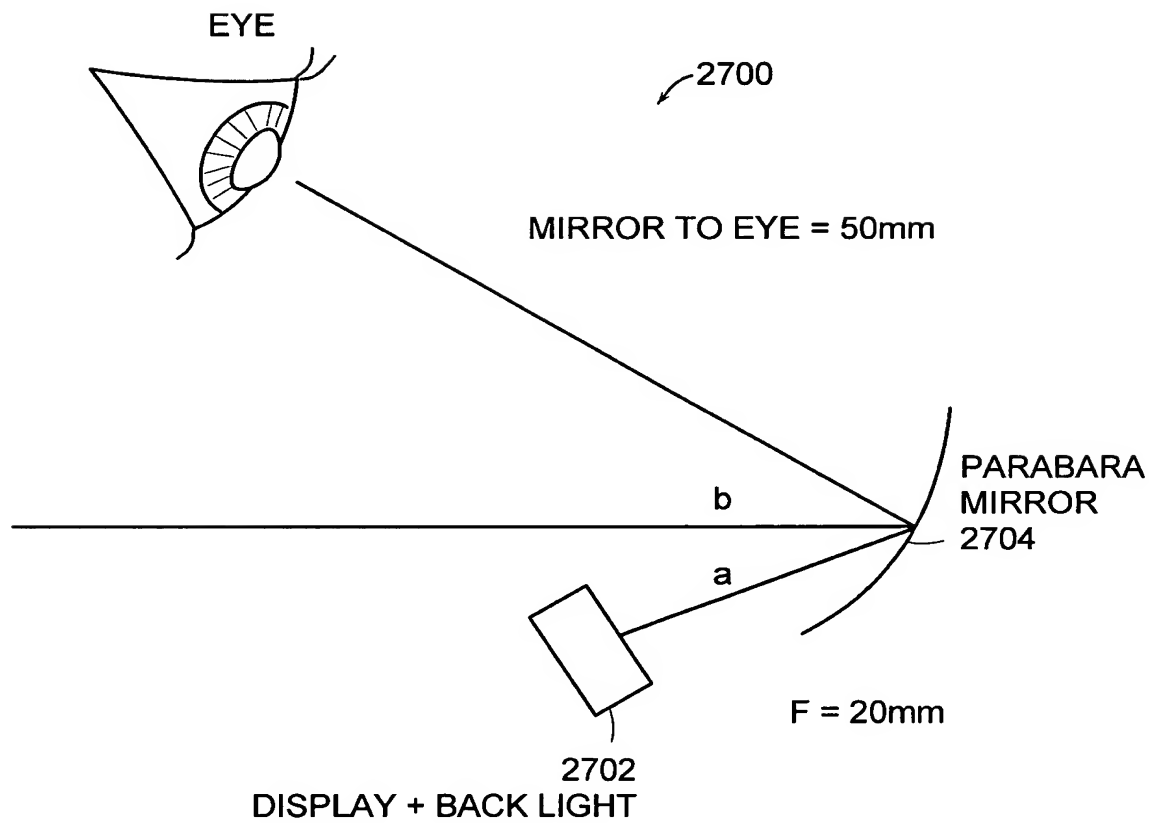


FIG. 27





26/41

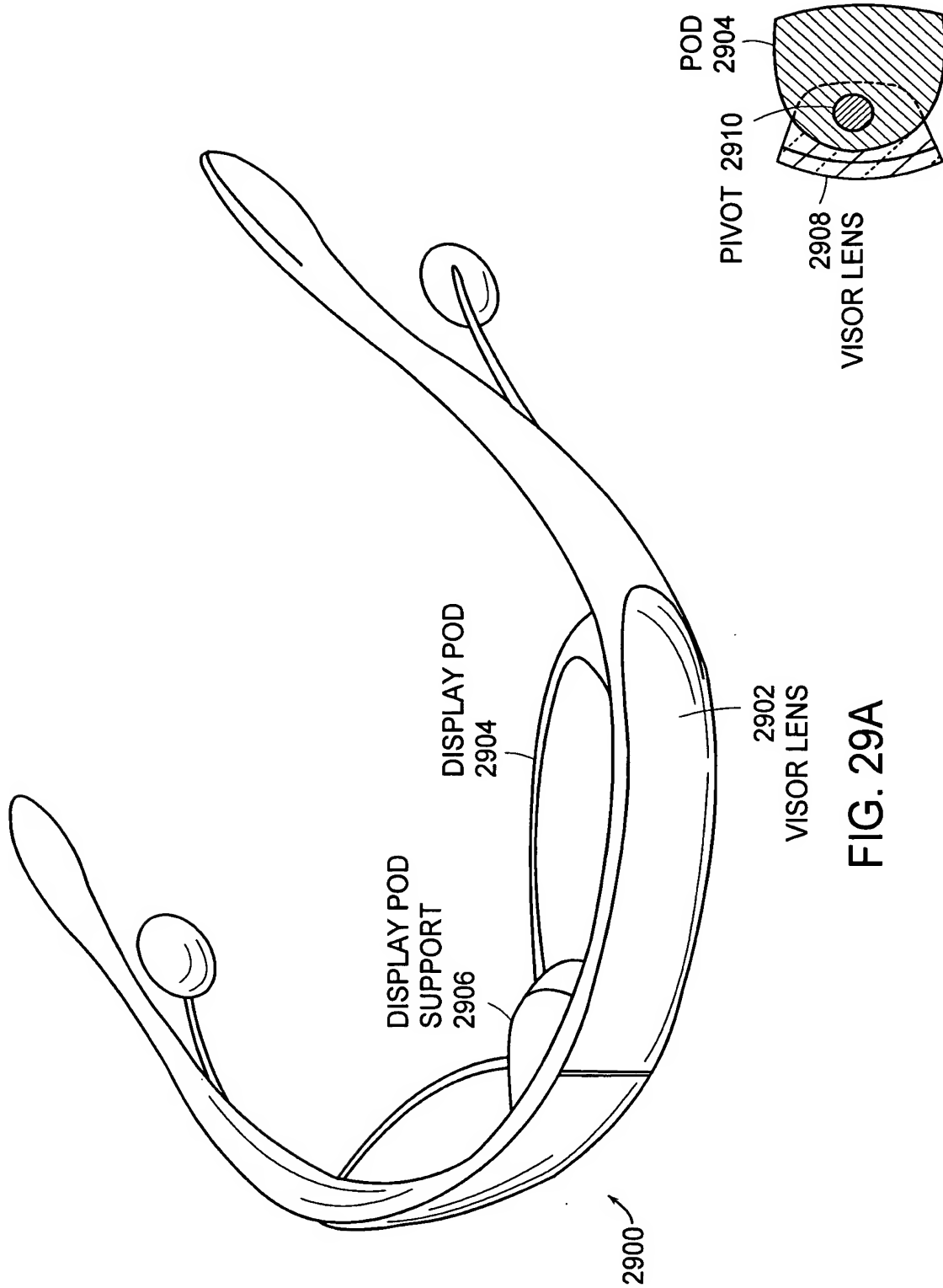


FIG. 29A

FIG. 29B

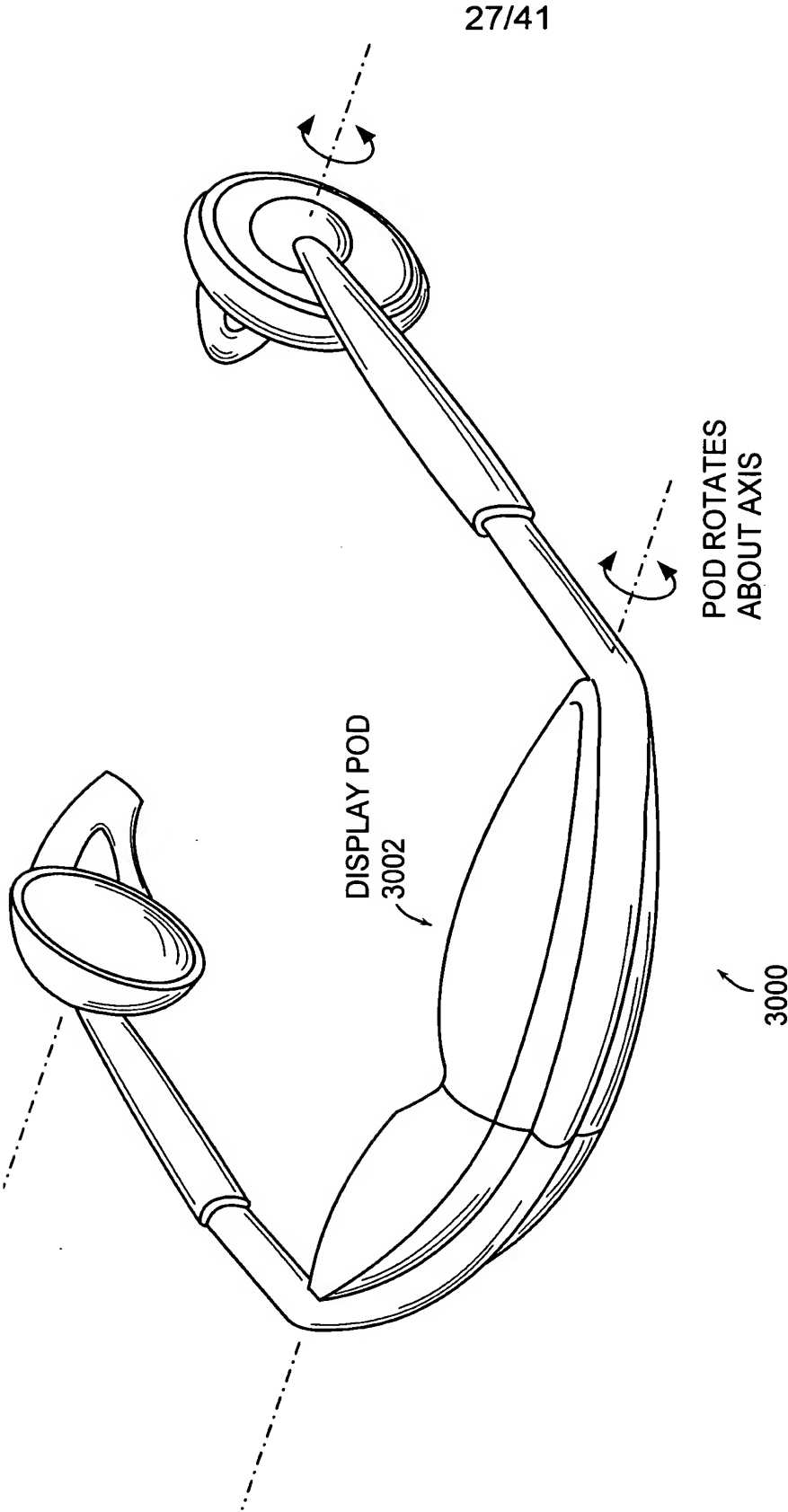


FIG. 30

28/41

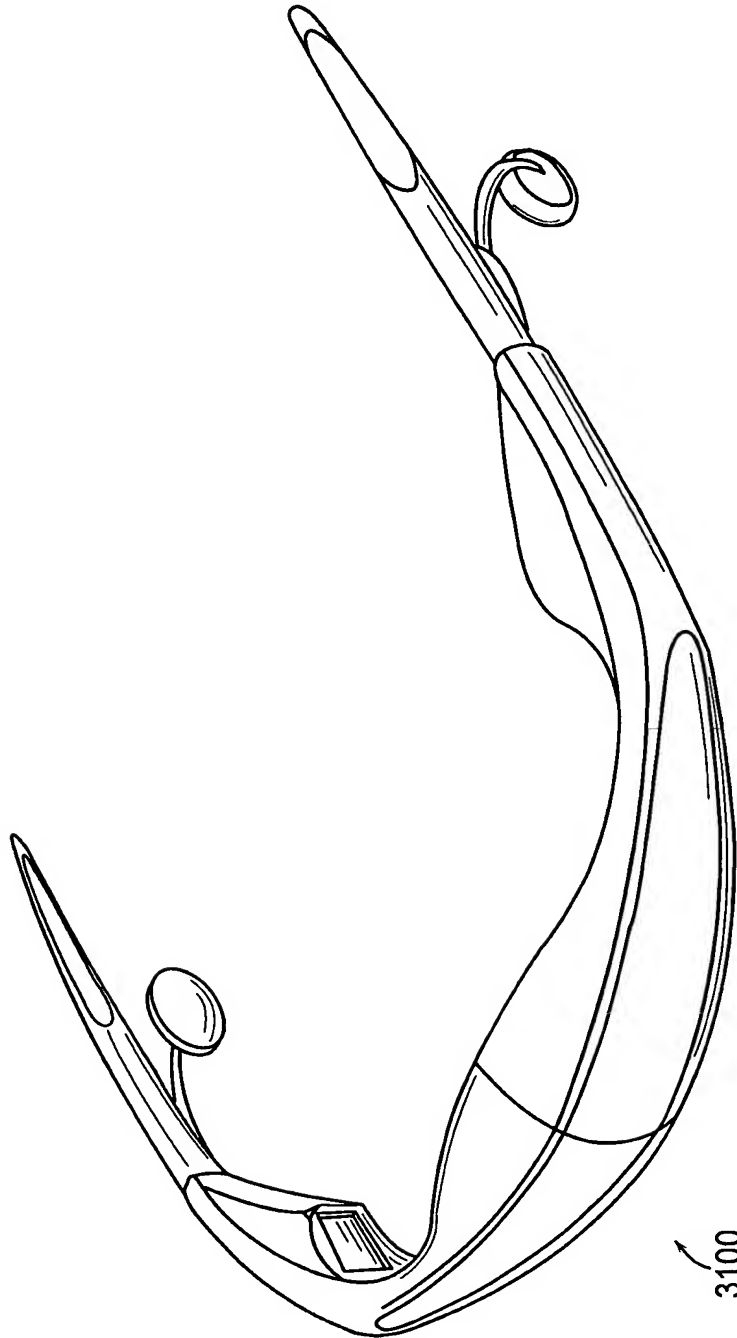


FIG. 31

29/41

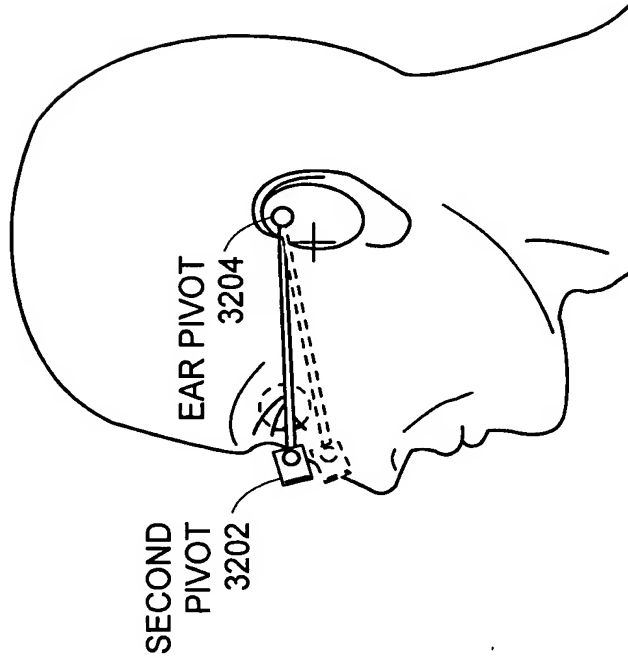


FIG. 32B

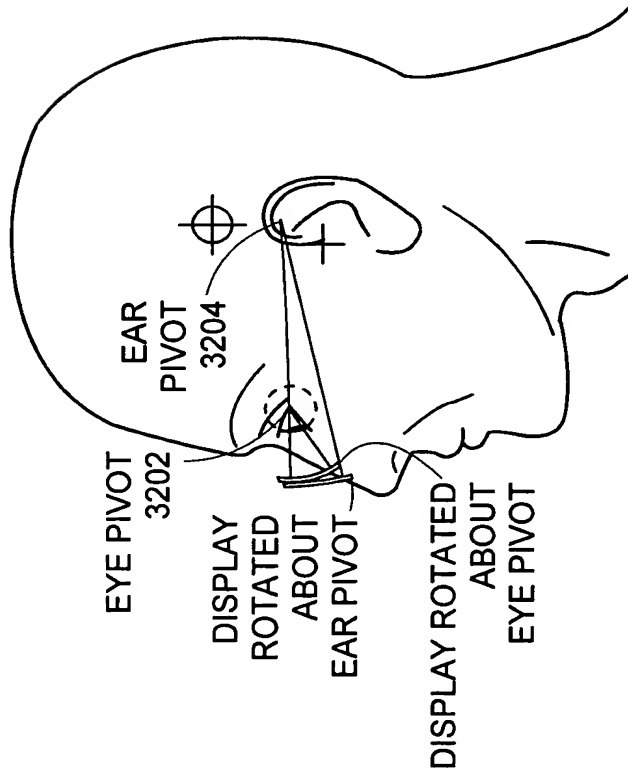


FIG. 32A

30/41

MIRROR LENS SYSTEM  
(25mm EYE RELIEF)

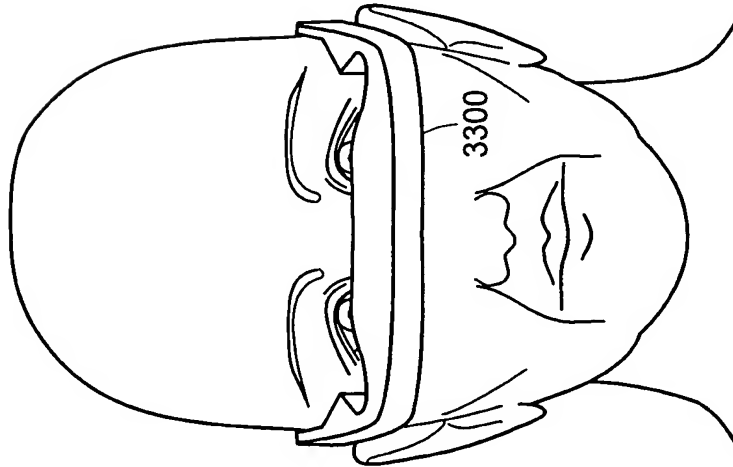


FIG. 33A

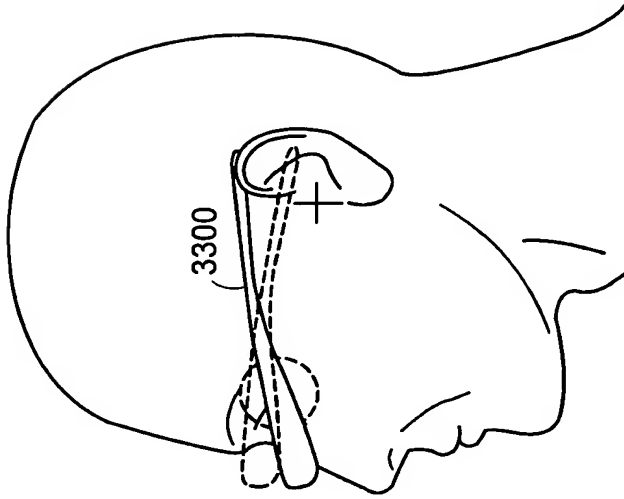


FIG. 33B

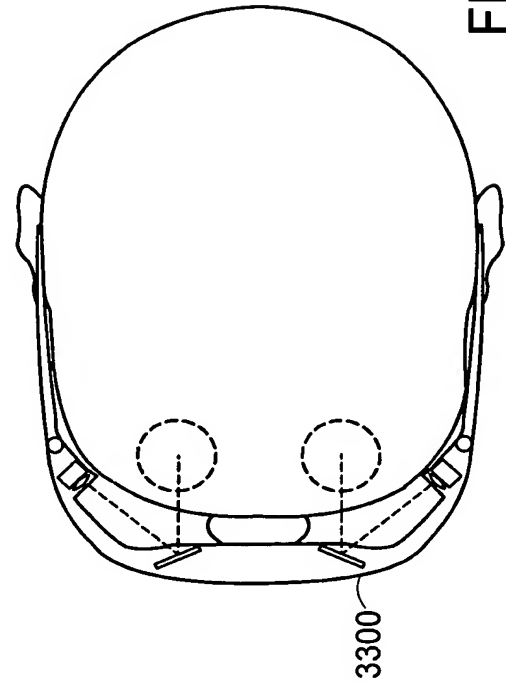
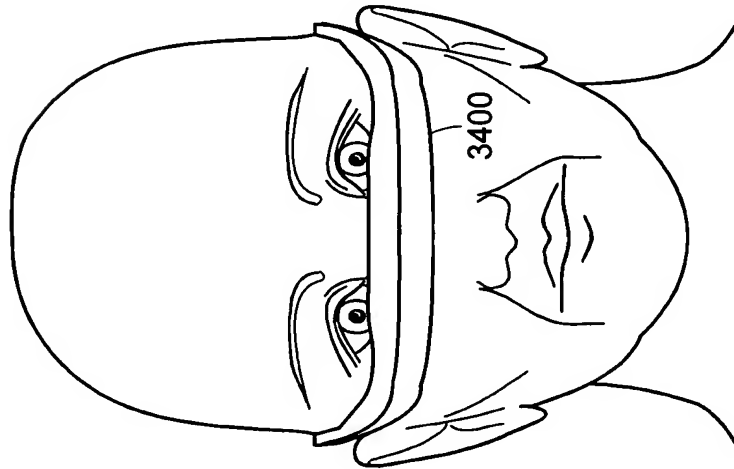


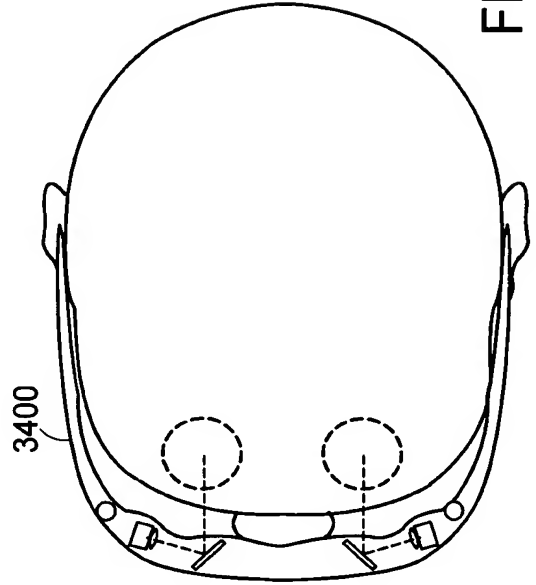
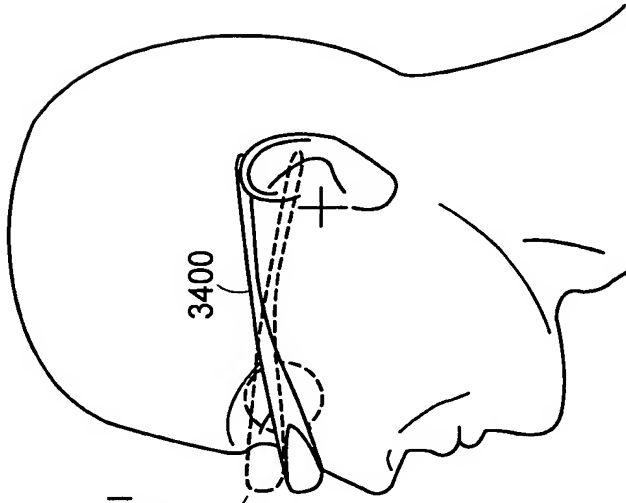
FIG. 33C

31/41

MIRROR LENS SYSTEM  
(25mm EYE RELIEF)



Top View shows headset in horizontal  
orientation - see dashed lines below



32/41

MIRROR LENS SYSTEM  
(50mm EYE RELIEF)

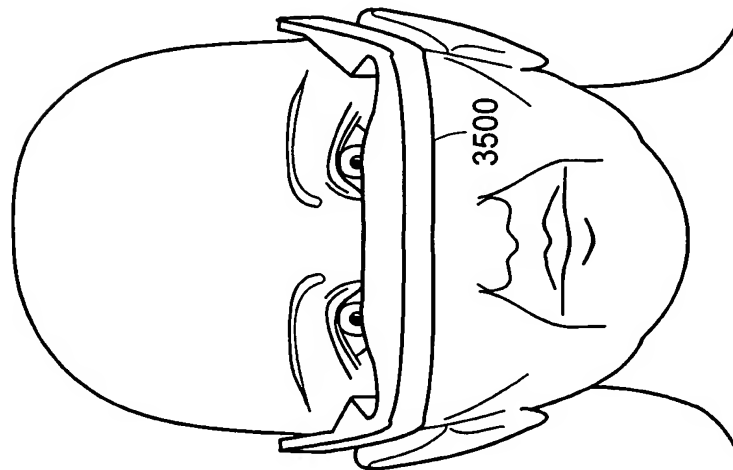


FIG. 35A

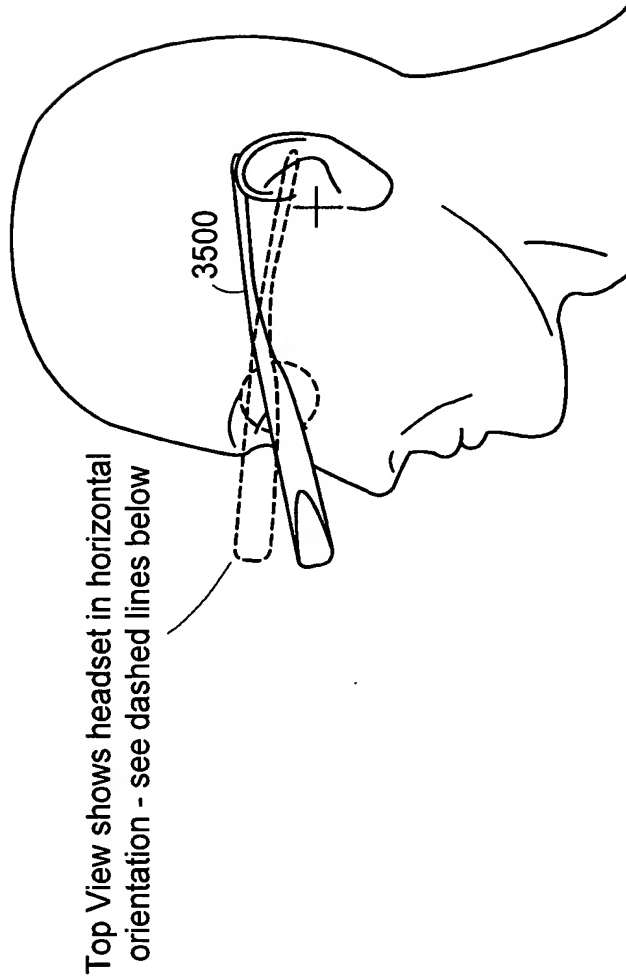


FIG. 35B

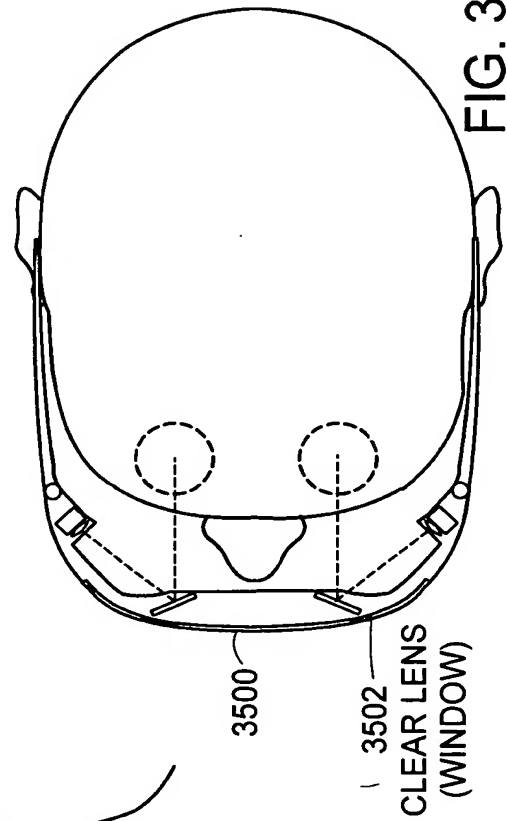


FIG. 35C



33/41

MIRROR LENS SYSTEM  
(50mm EYE RELIEF)

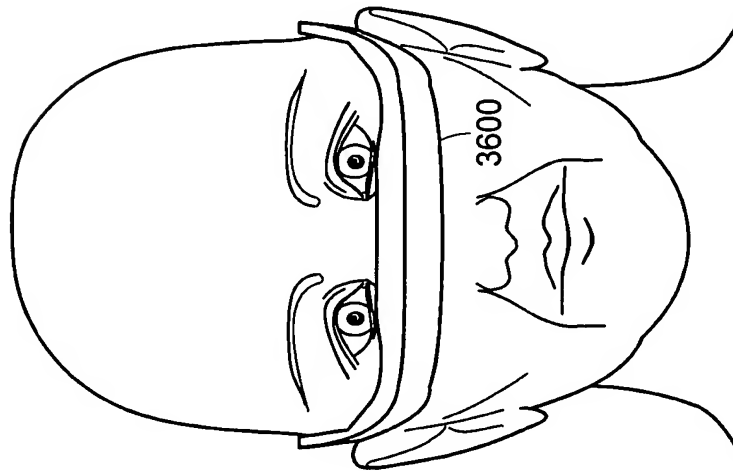


FIG. 36A

Top View shows headset in horizontal  
orientation - see dashed lines below

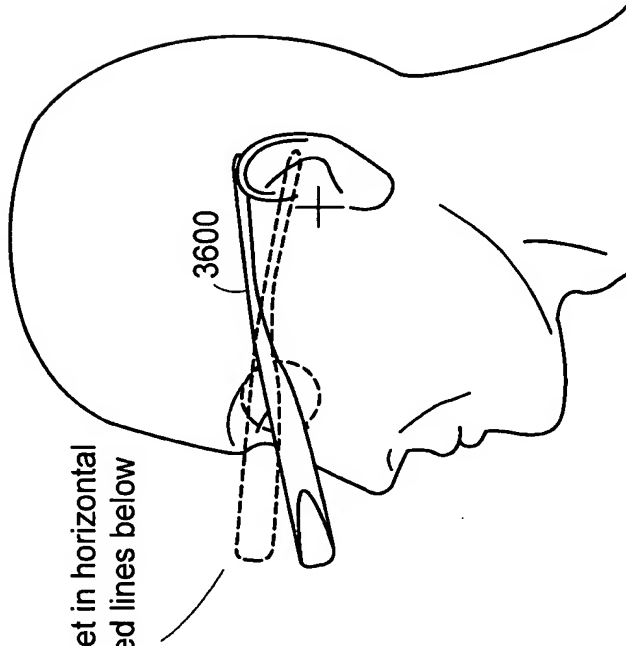


FIG. 36B

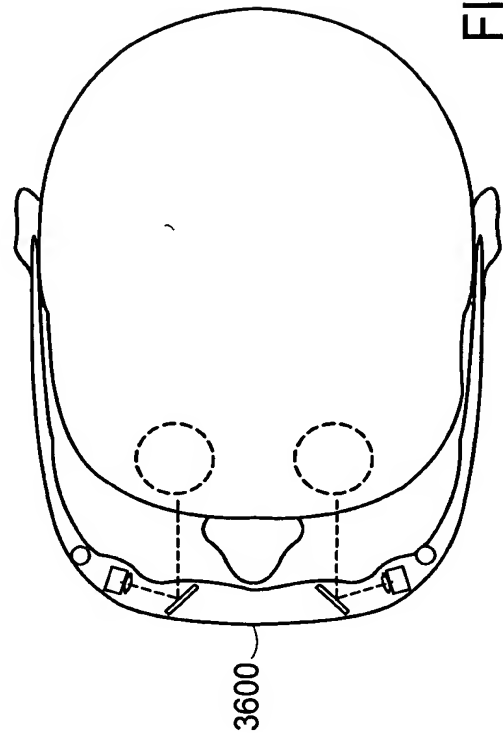


FIG. 36C

34/41

MIRROR LENS SYSTEM  
(50mm EYE RELIEF)

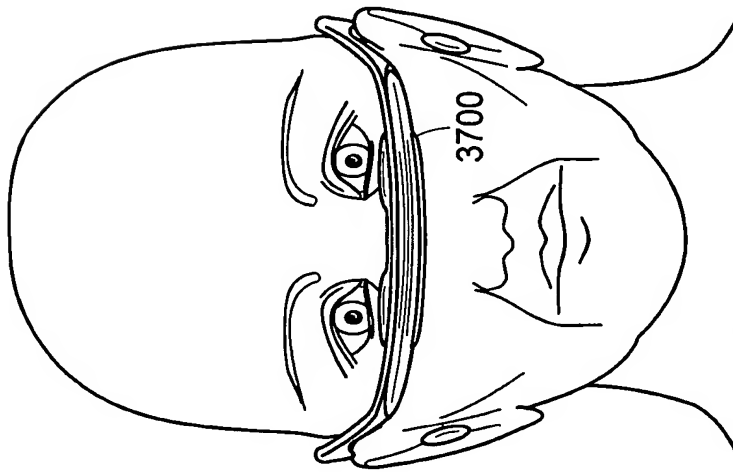


FIG. 37A

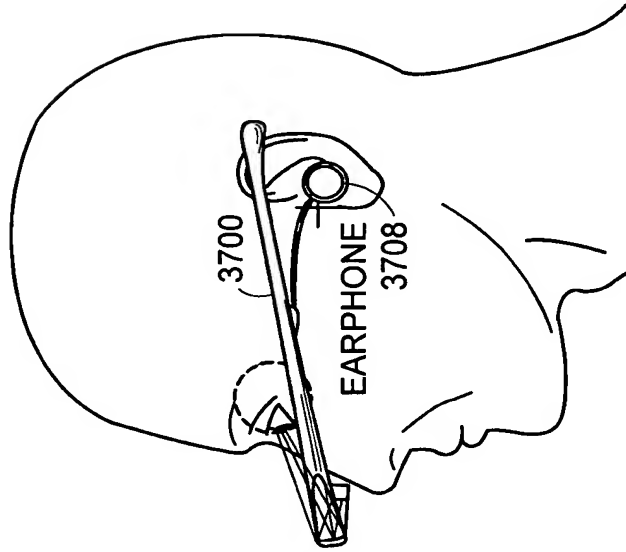


FIG. 37B

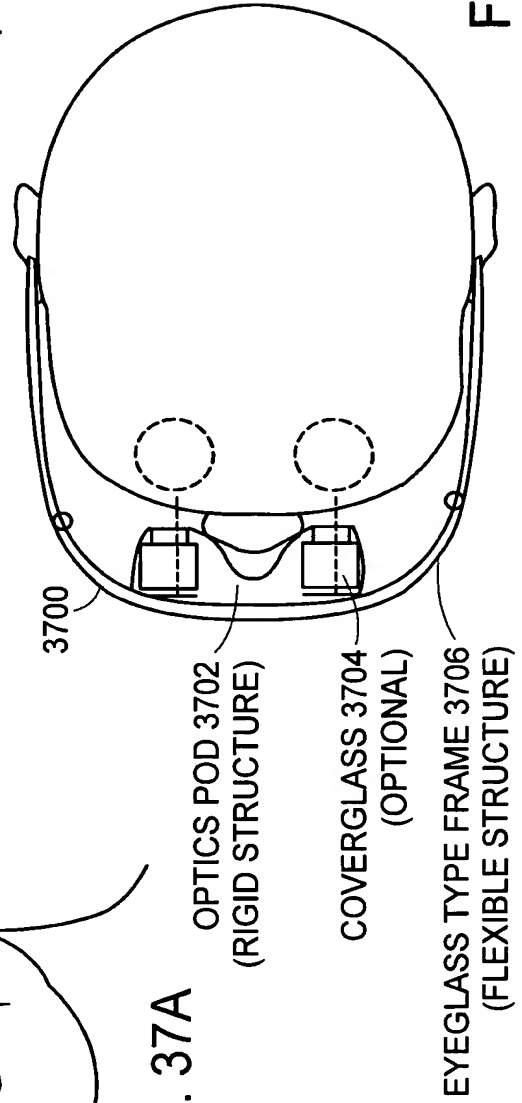
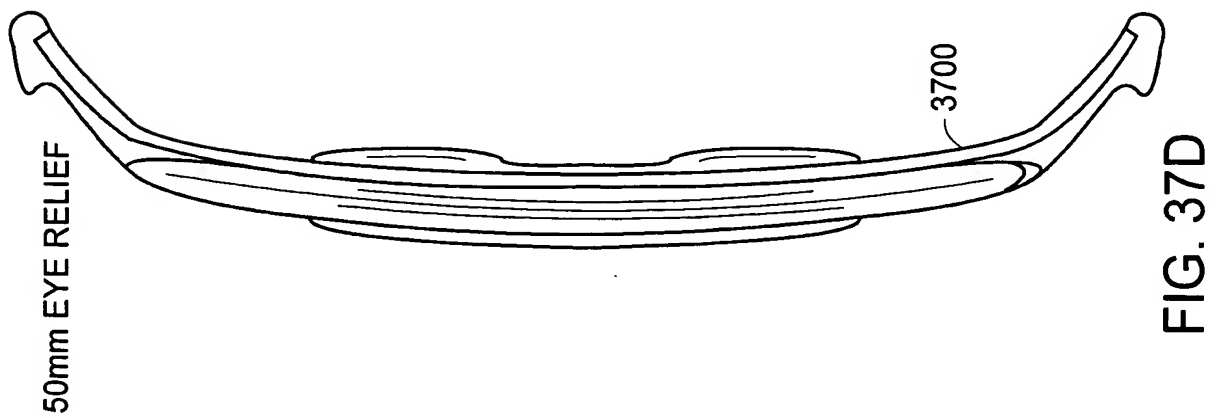
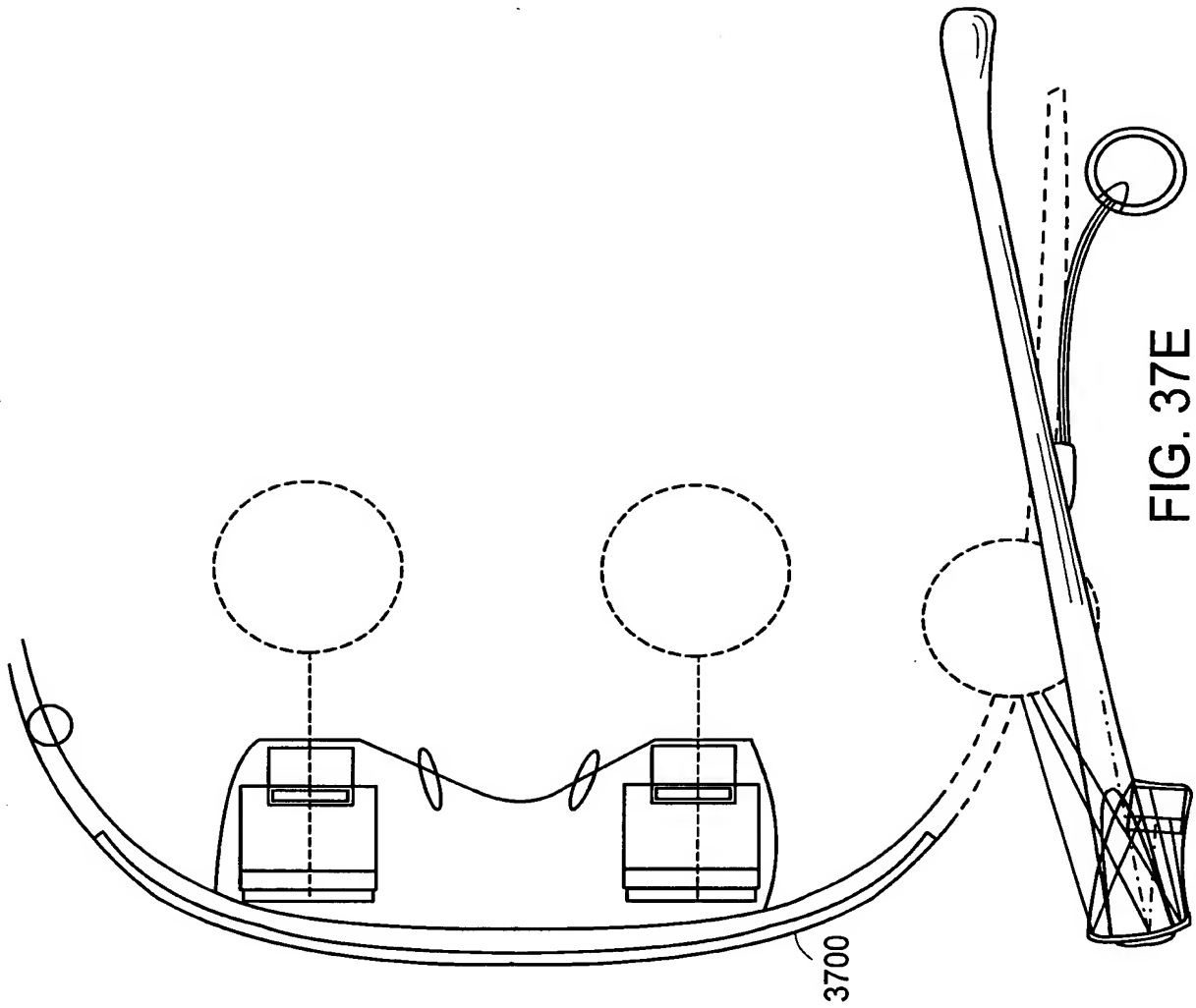


FIG. 37C

35/41



36/41

PANORAMA SCOPE IMAGE  
TO THE EYE

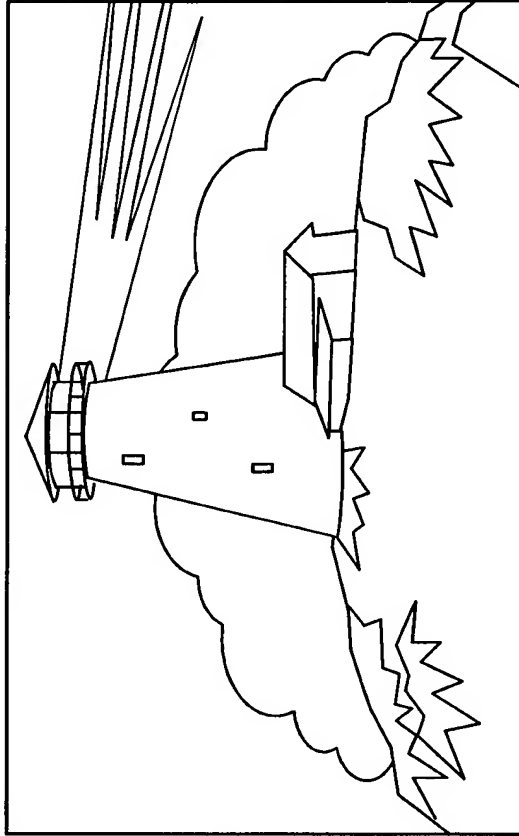


FIG. 38B

DISPLAY IMAGE

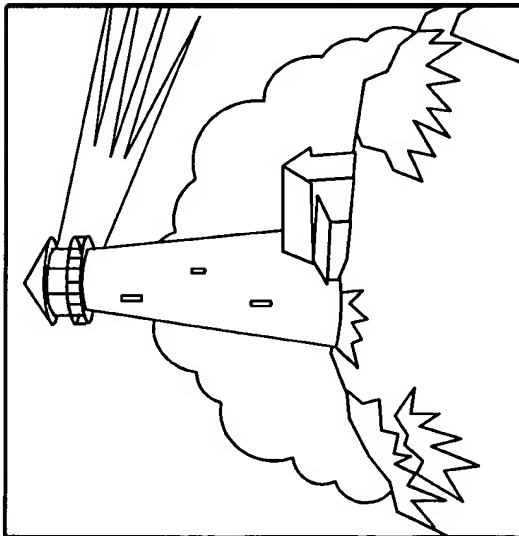


FIG. 38A

37/41

PANORAMA SCOPE  
(EXIT PUPIL DESIGN TO ACCOMMODATE IPD)

ASSUMING 2mm HUMAN PUPIL DIAMETER

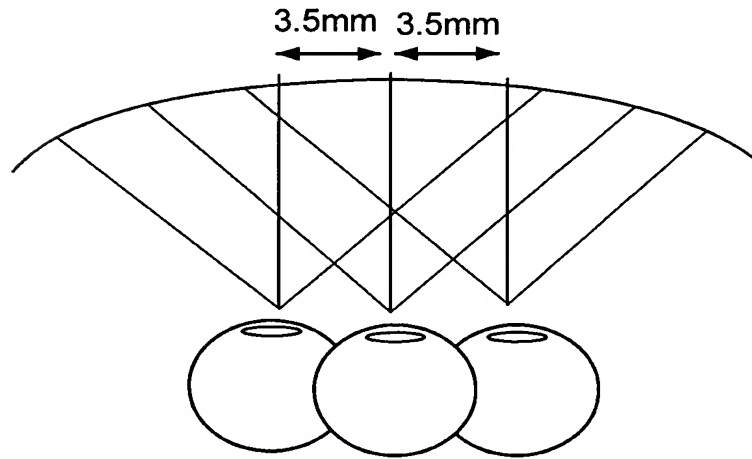


FIG. 39

OPTICAL CHARACTERISTICS BY MIRROR

	CASE 1	CASE2
FOV	20deg	28deg
EYE RELIEF	50mm	50mm
EXIT PUPIL	V 4mm H 8mm	V 4mm H 8mm
SHAPE OF MIRROR	WIDE RECTANGULAR	WIDE RECTANGULAR
F	20mm	20mm
DISPLAY IMAGE	HDTV like	HDTV like

FIG. 40

38/41

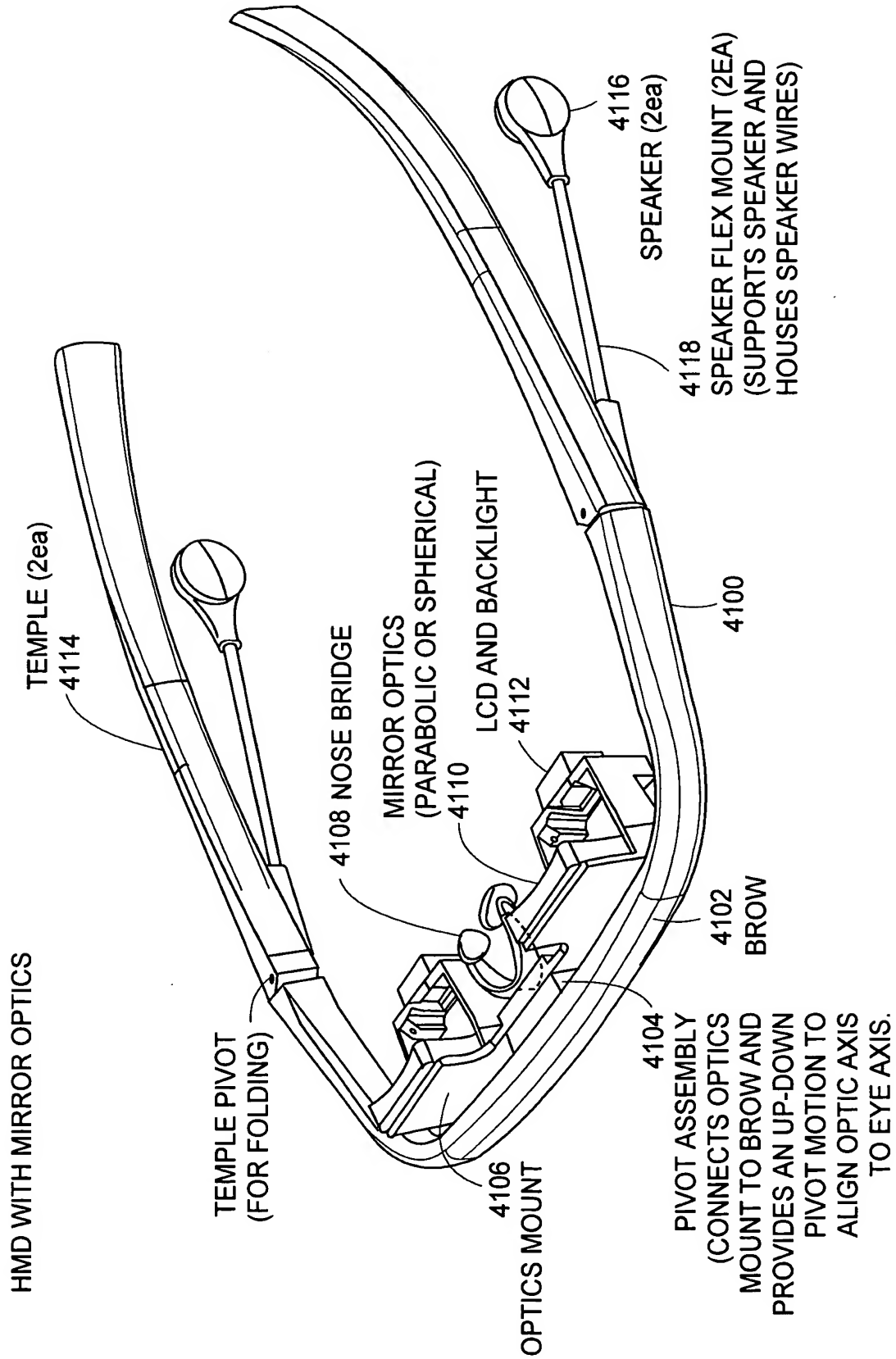
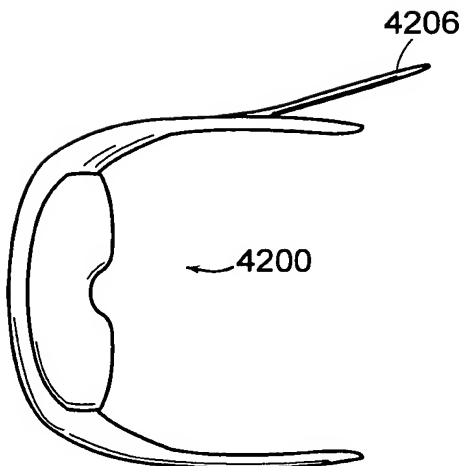
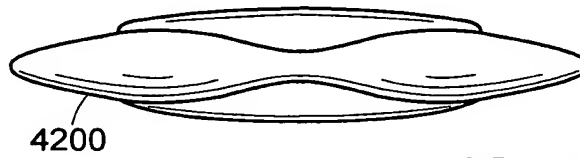
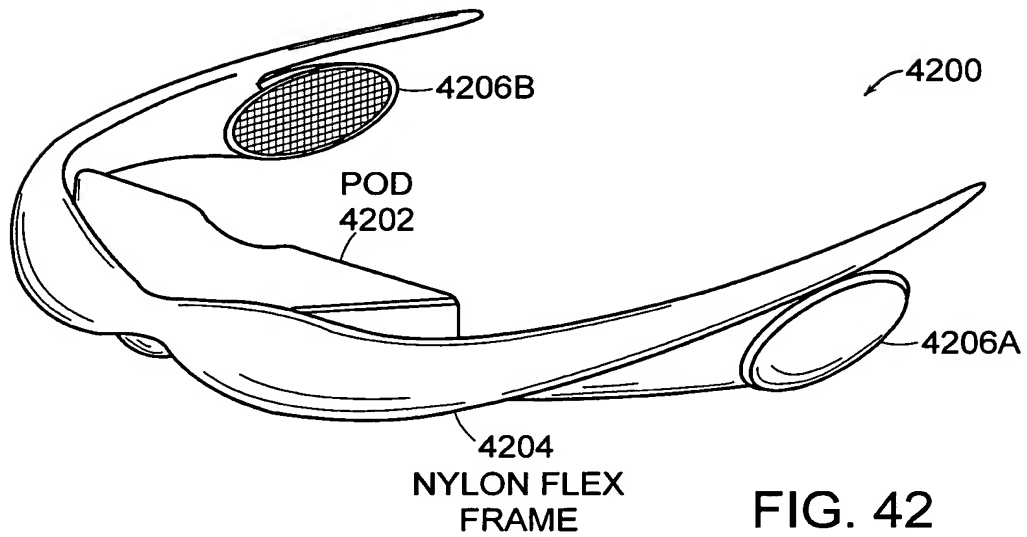
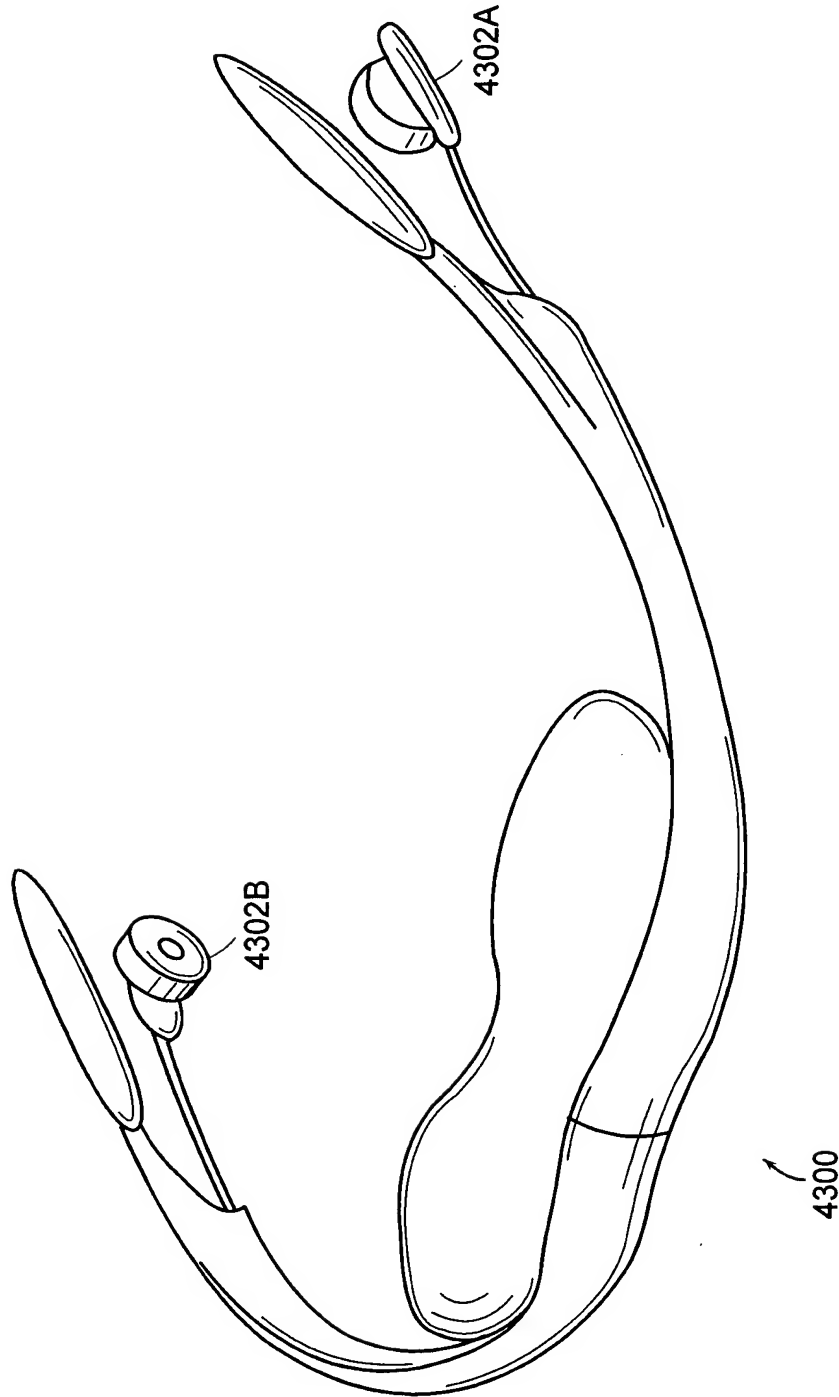


FIG. 41

39/41



40/41





41/41

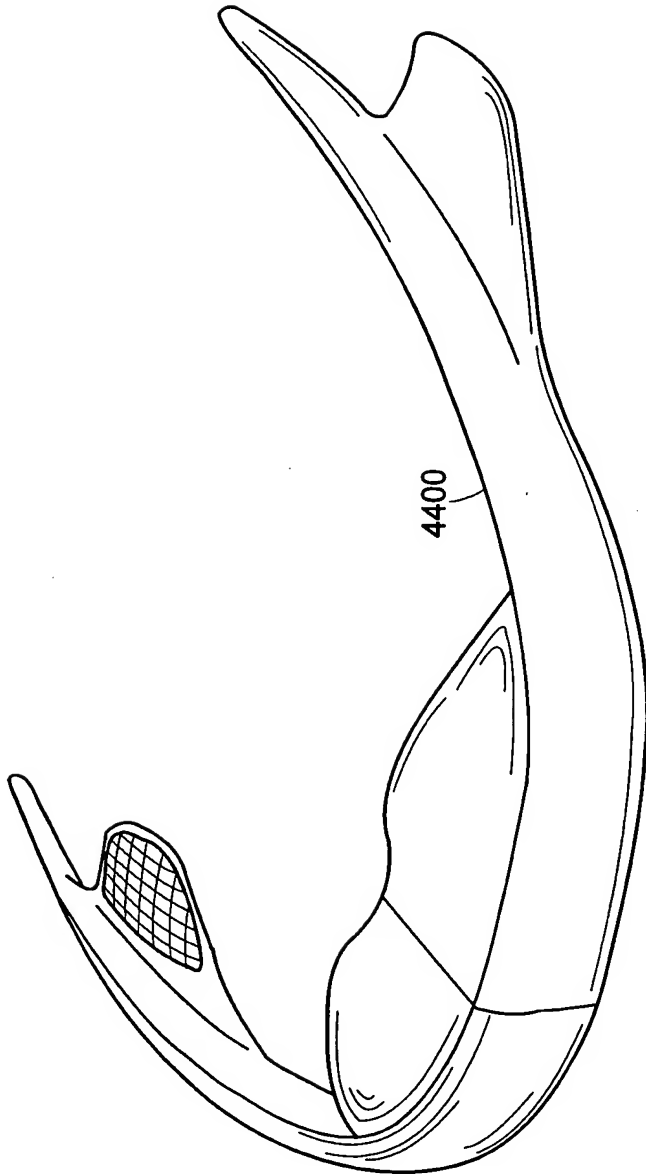


FIG. 44A

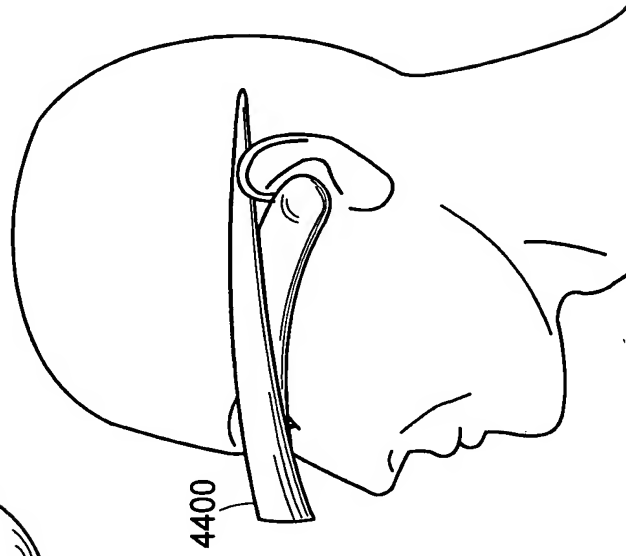


FIG. 44B